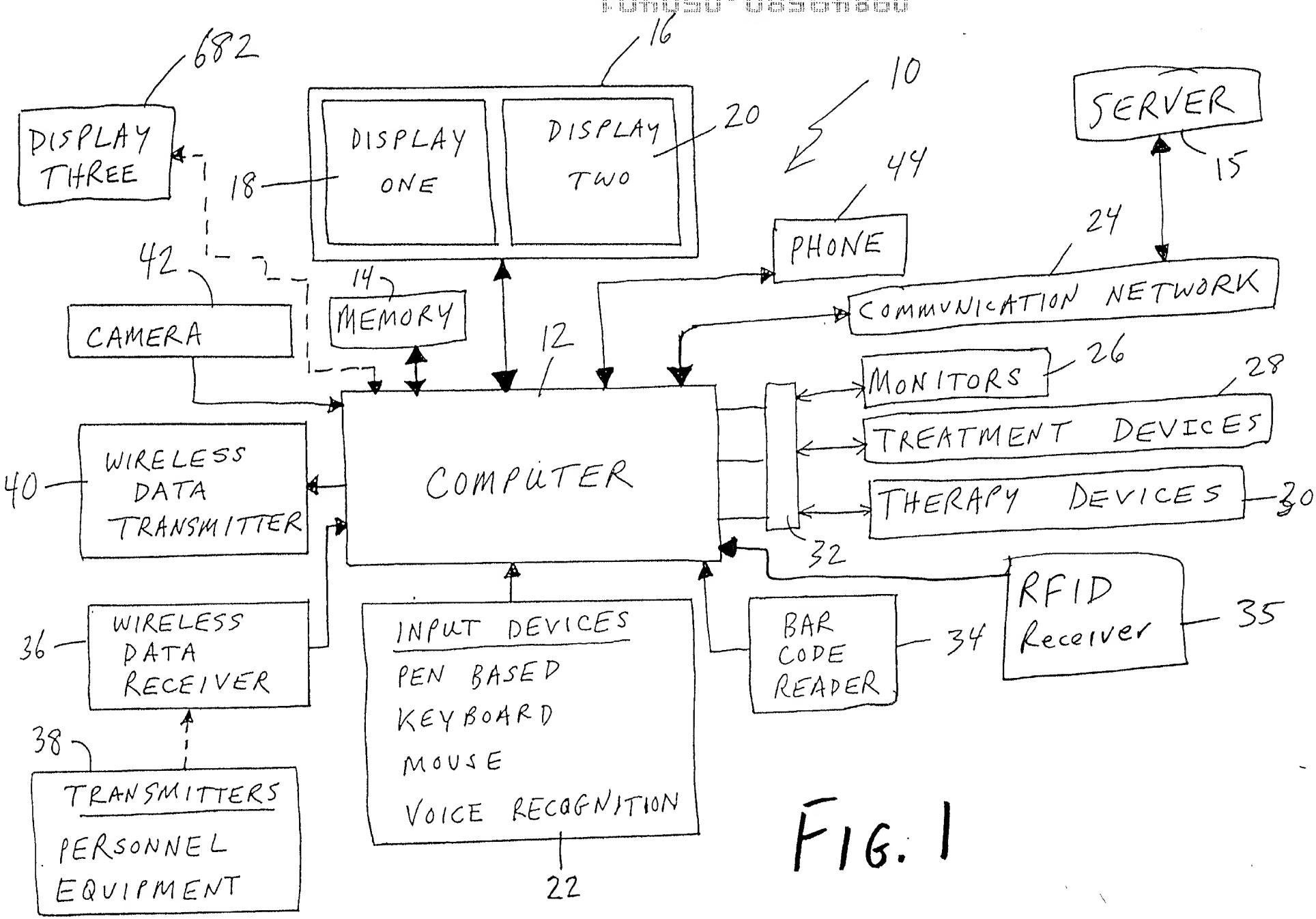

682
DISPLAY THREE
16
DISPLAY ONE
DISPLAY TWO
20
18
10
SERVER
15
44
PHONE
24
42
CAMERA
14
MEMORY
12
COMMUNICATION NETWORK
MONITORS
26
28
TREATMENT DEVICES
THERAPY DEVICES
30
COMPUTER
40
WIRELESS DATA TRANSMITTER
32
RFID Receiver
35
BAR CODE READER
34
36
WIRELESS DATA RECEIVER
INPUT DEVICES
PEN BASED
KEYBOARD
MOUSE
VOICE RECOGNITION
22
38
TRANSMITTERS
PERSONNEL
EQUIPMENT

FIG. 1

Tohoso' 08564860

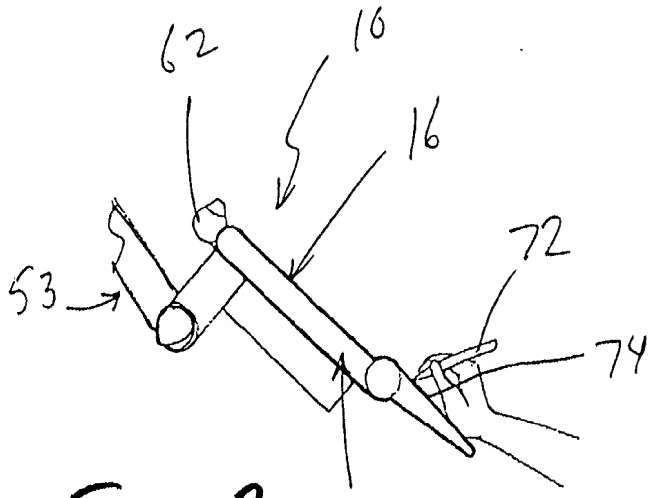


FIG. 3

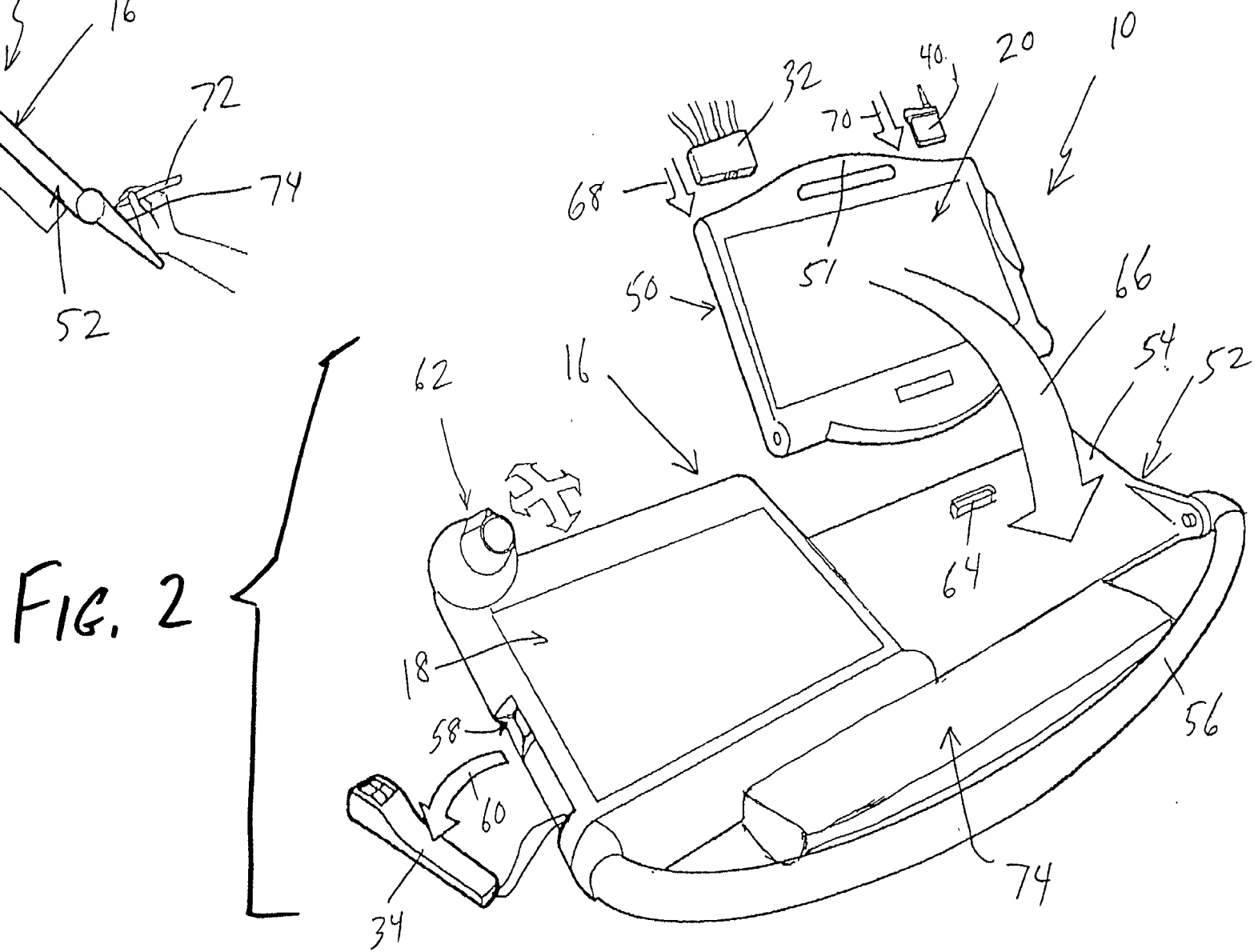


FIG. 2

T0h050" 0856h360

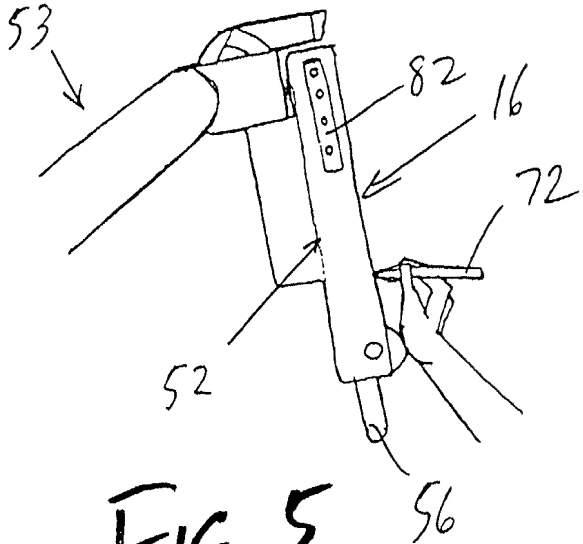


FIG. 5

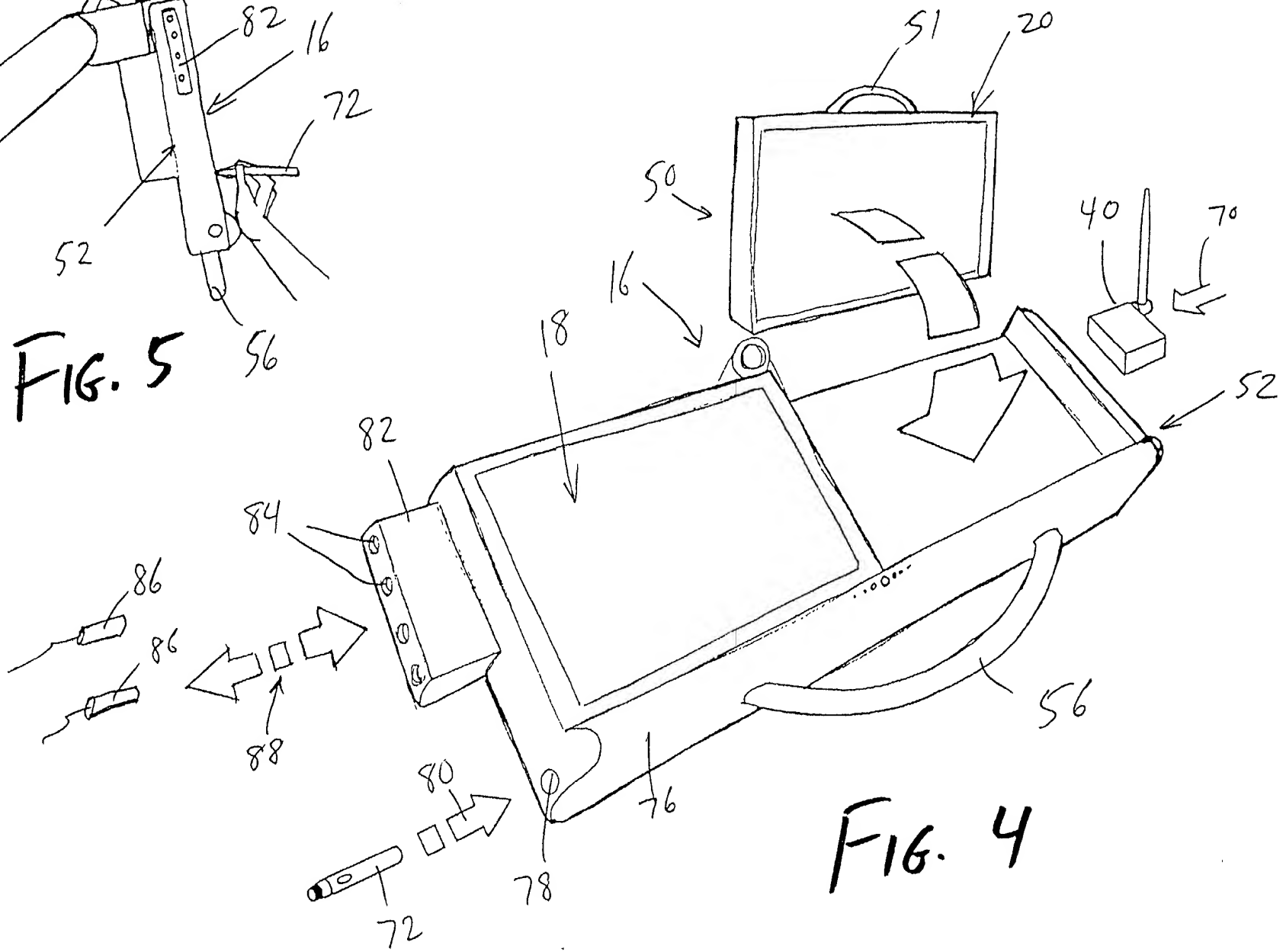


FIG. 4

T0h050" 0856h869

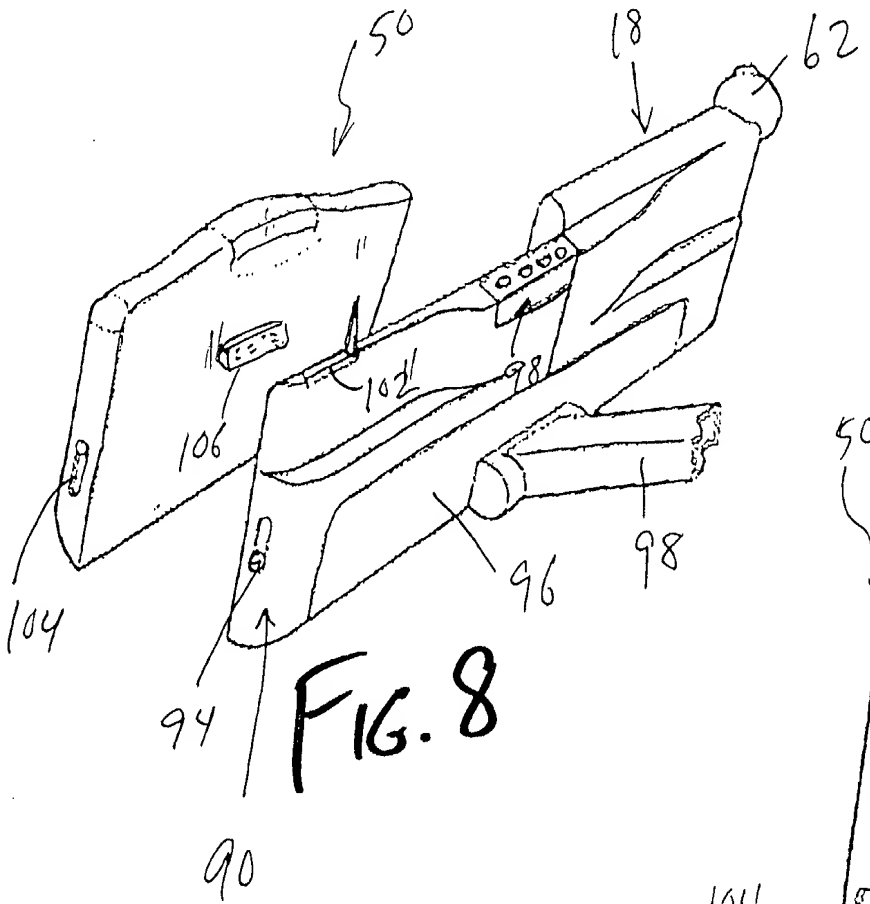


FIG. 8

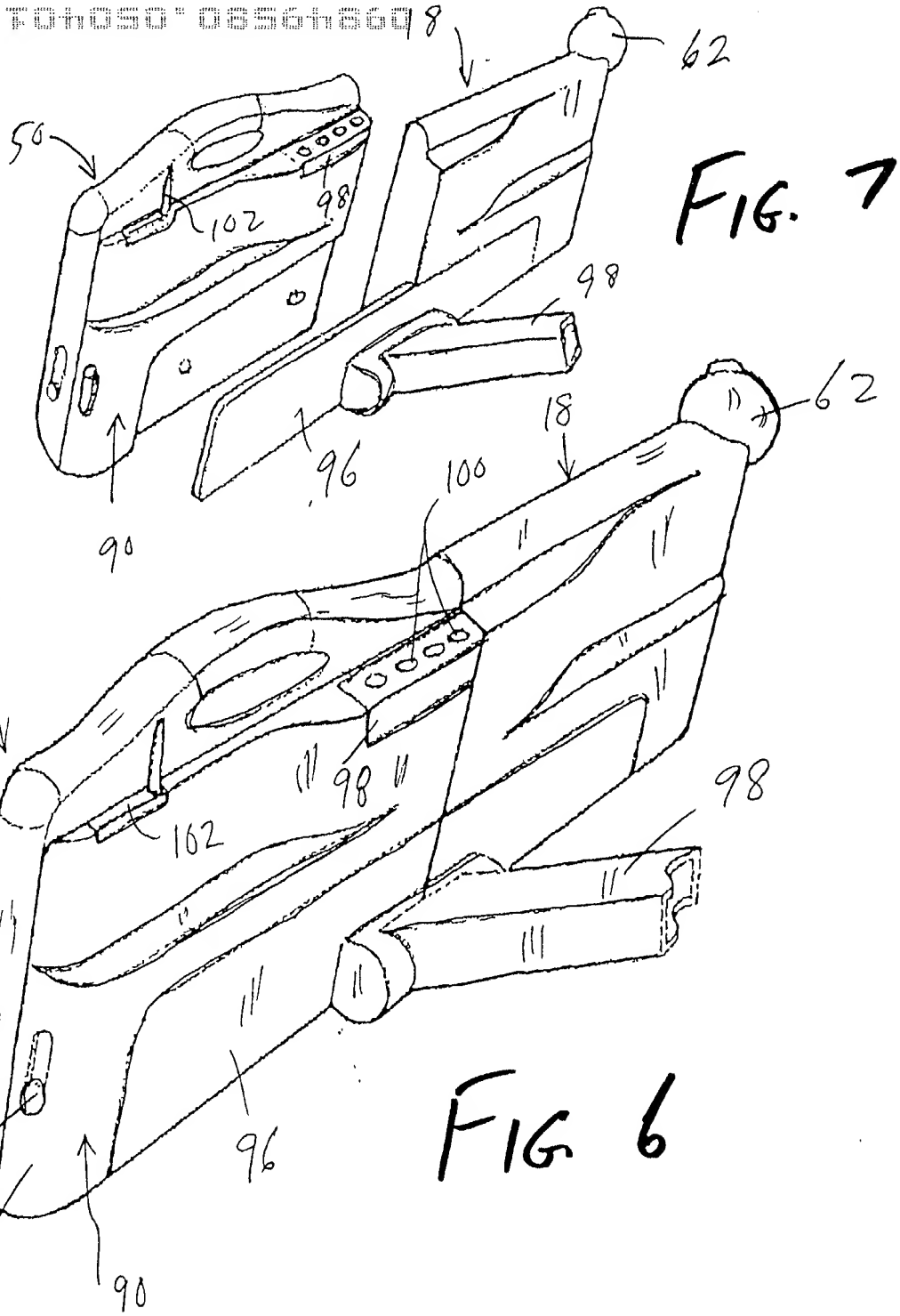


FIG. 7

FIG. 6

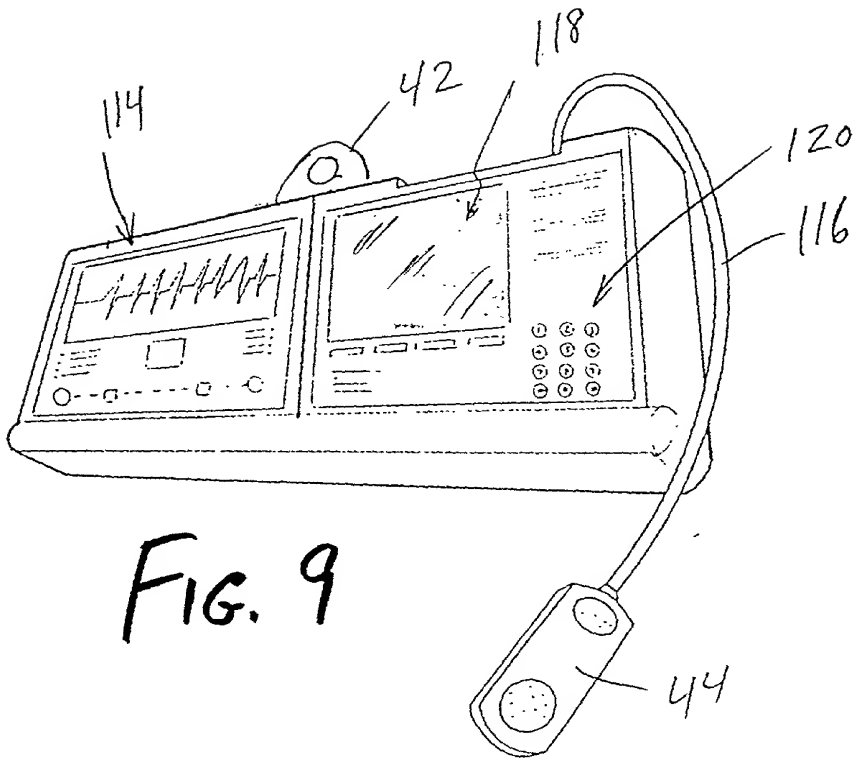


FIG. 9

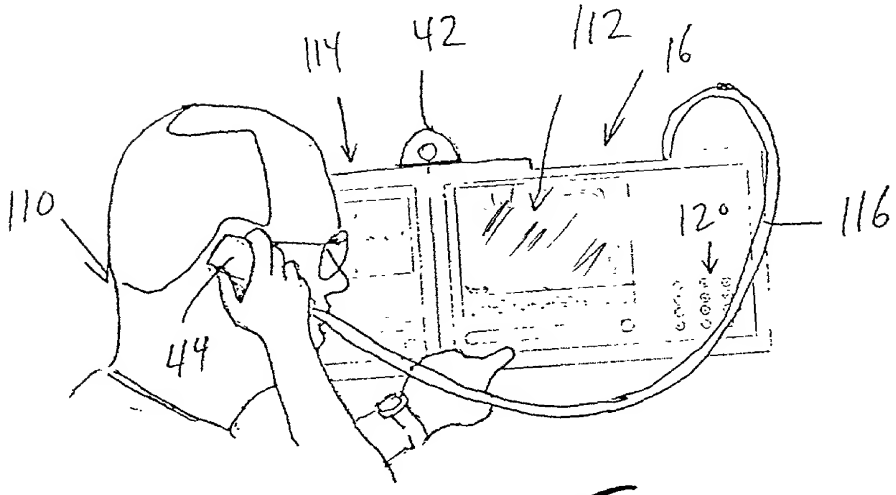
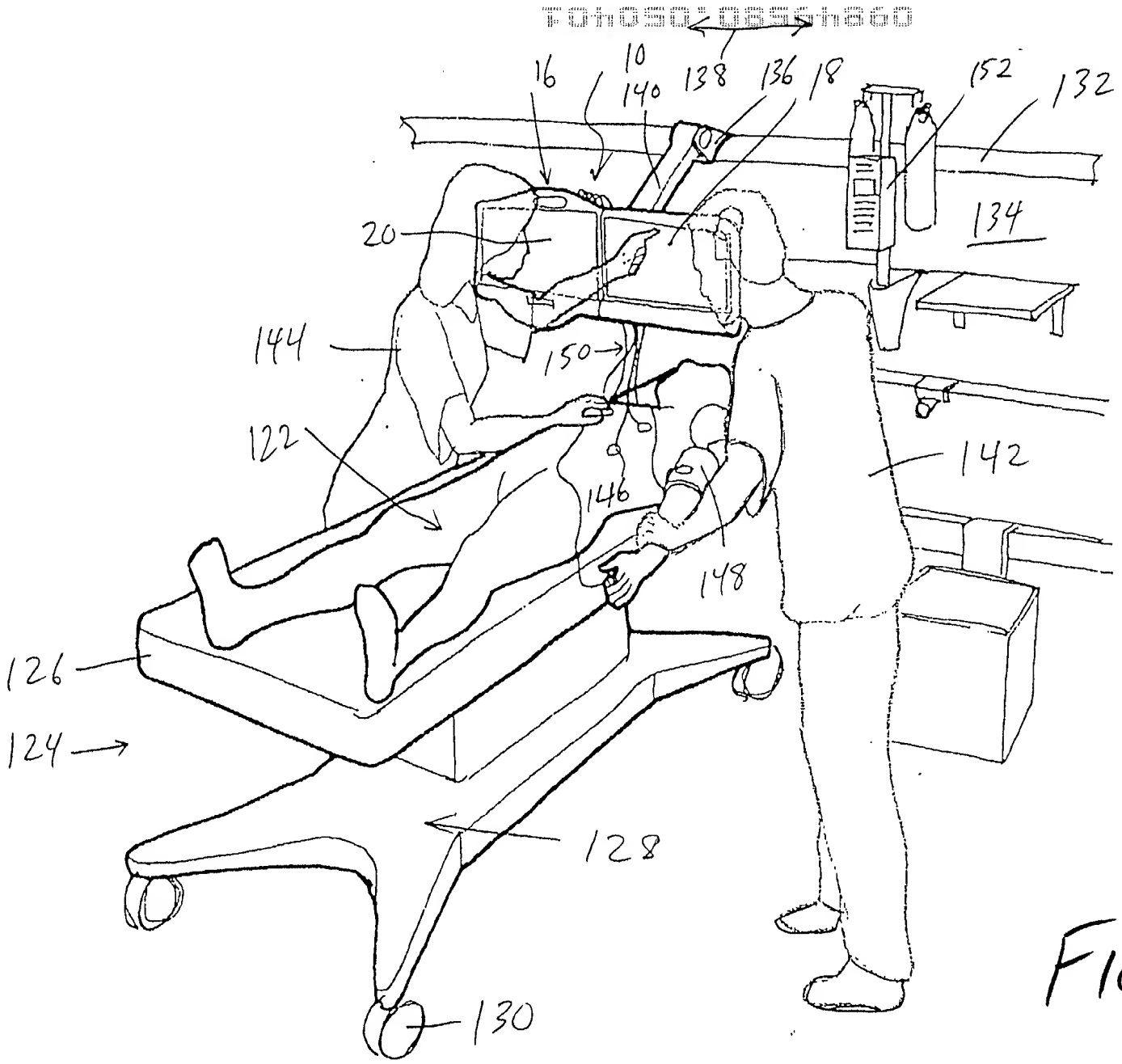


FIG. 10


10
16
140
138
136
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152
132
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144
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122
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148
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126
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128
130

FIG. 11

D0n0S0"0856n860

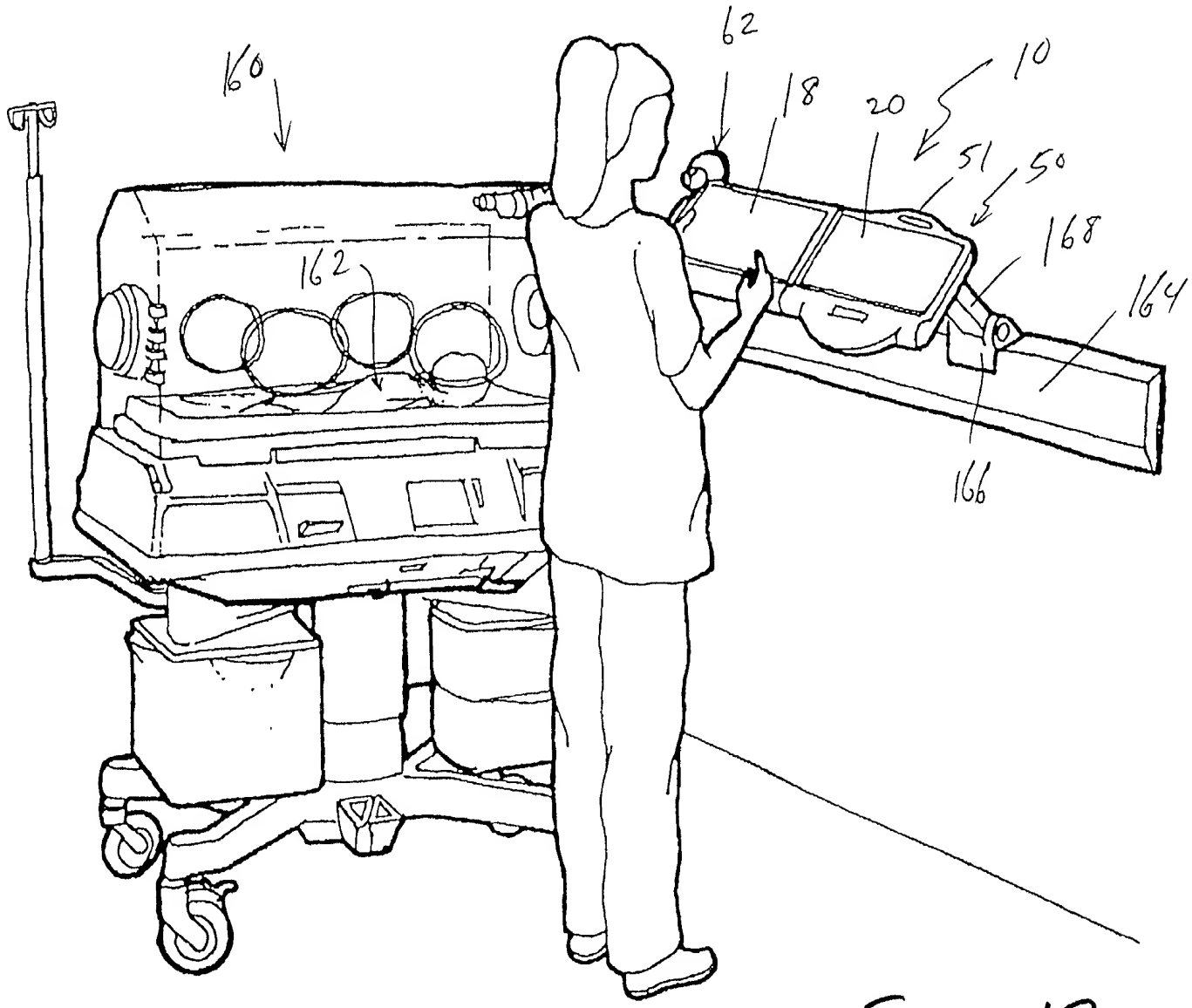


FIG. 12

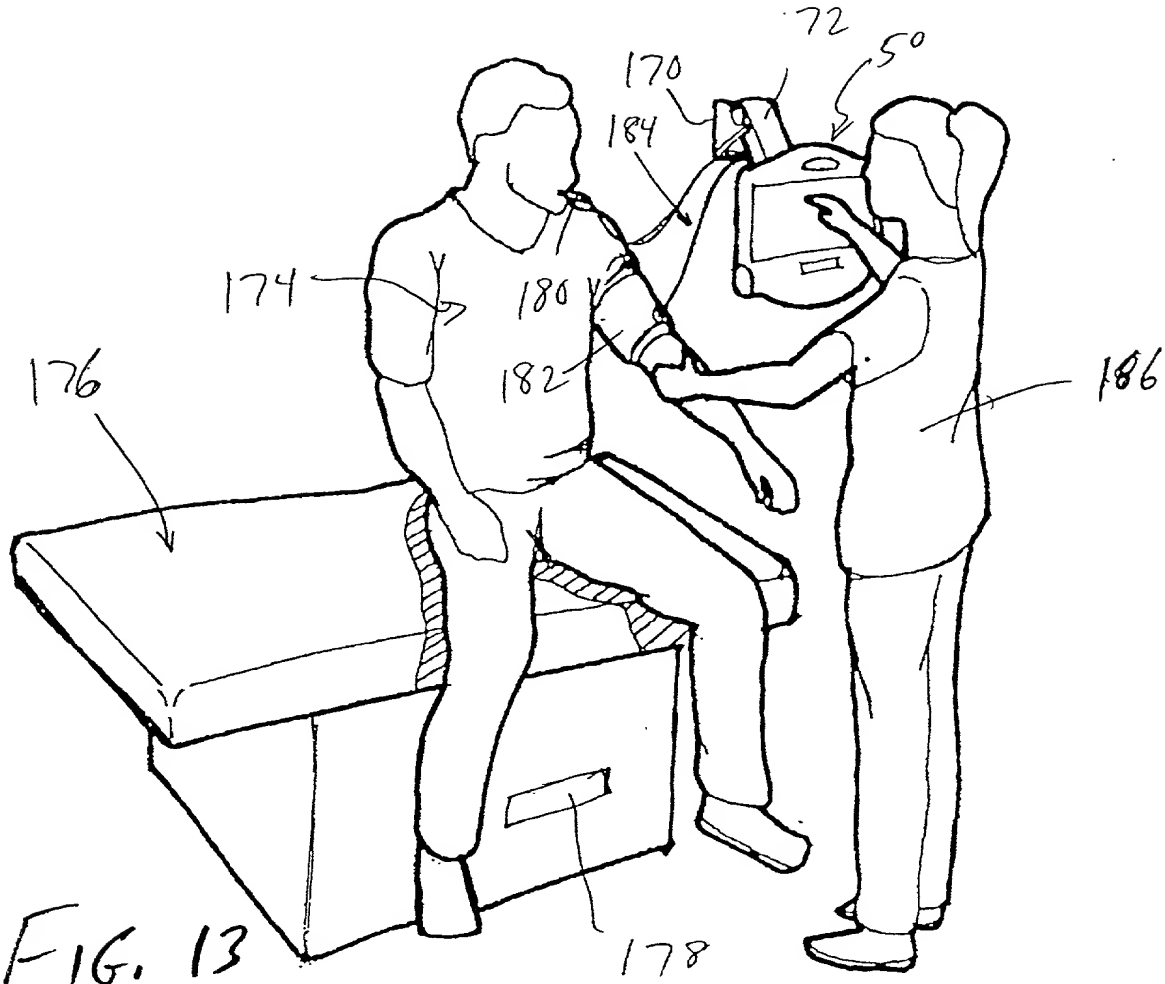
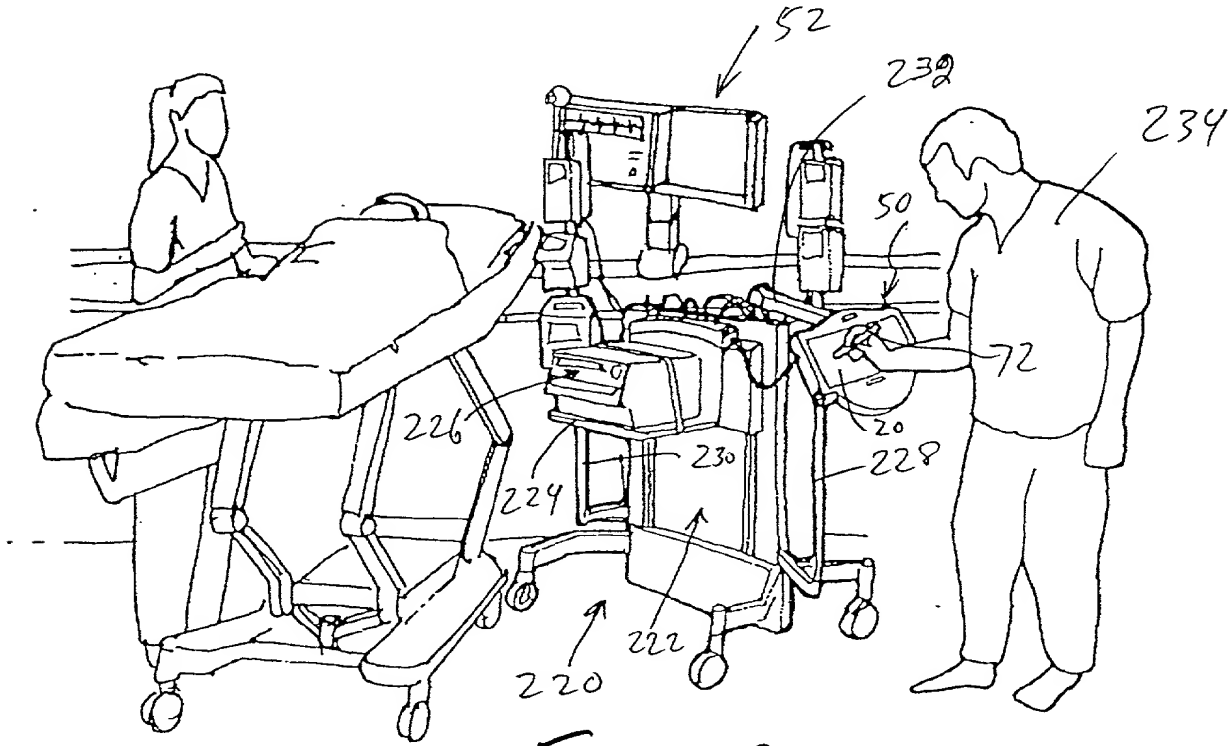

72
50
170
184
174
180
182
176
186
178

FIG. 13


52
232
234
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72
226
224
230
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220
222

FIG. 18

TO:0350" 0856:360

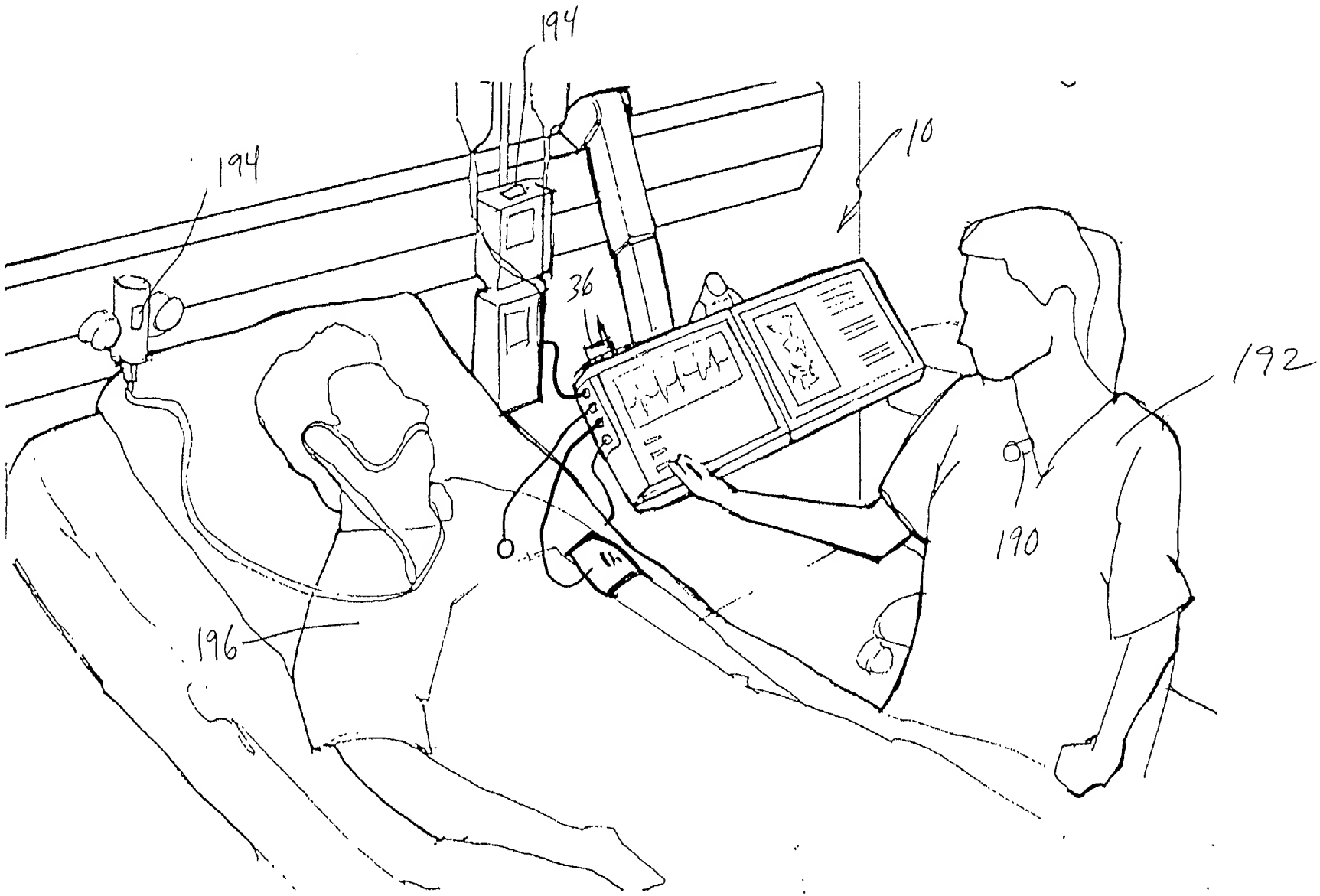


FIG. 14

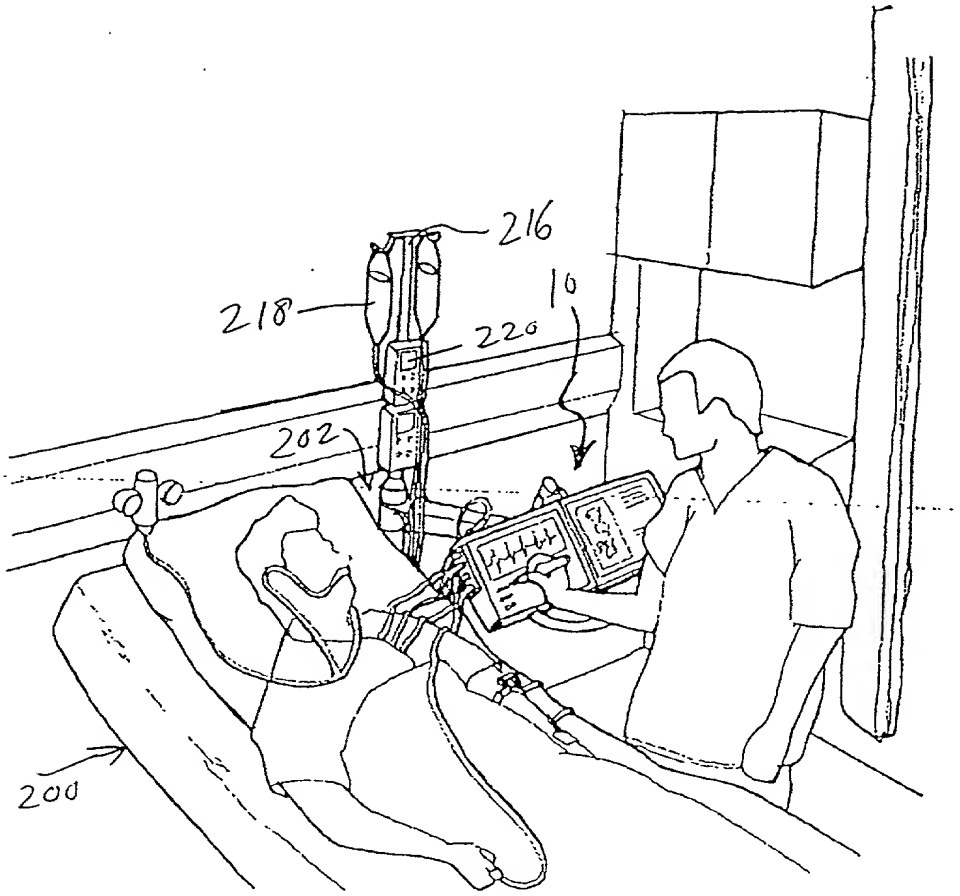


FIG. 15

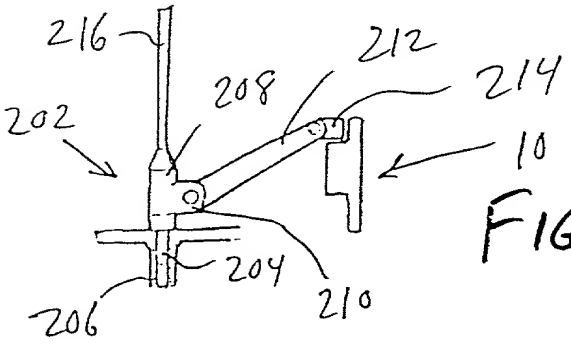


FIG. 16

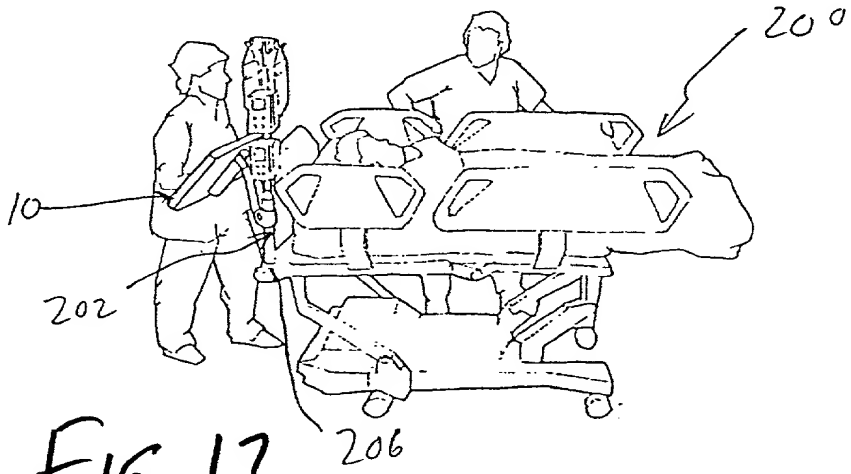


FIG. 17

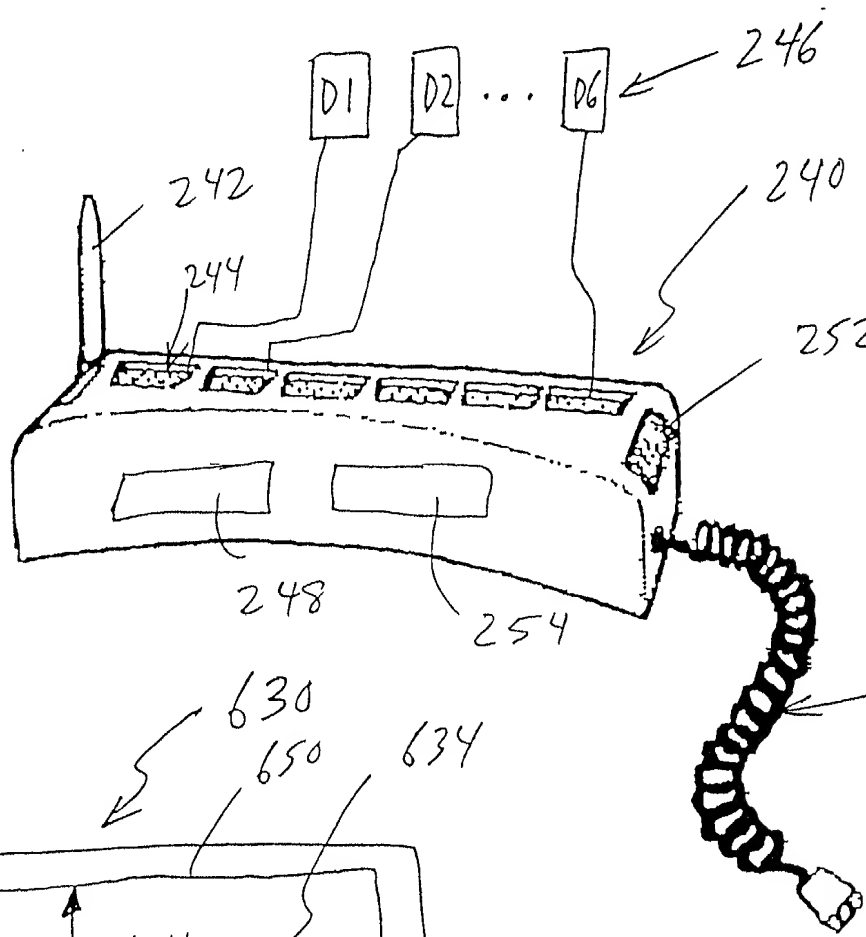
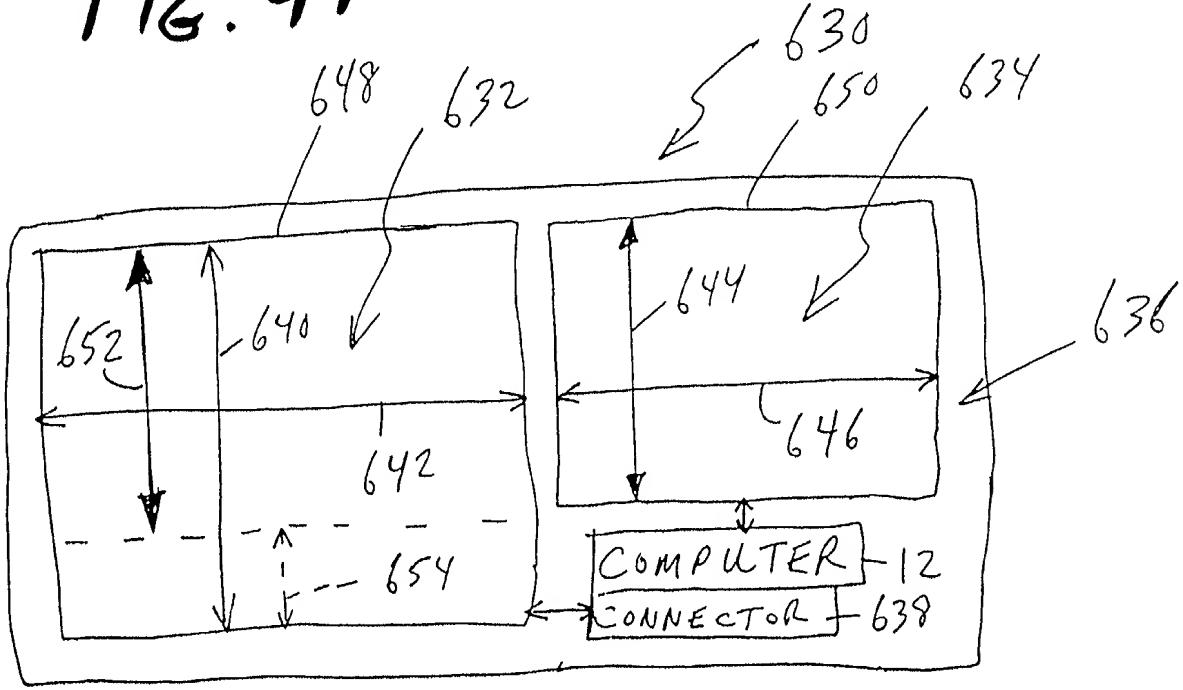

D1
D2
D6
246
242
244
240
252
248
254
250

FIG. 19

FIG. 41


630
648
632
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652
640
644
636
642
646
654
COMPUTER
12
CONNECTOR
638

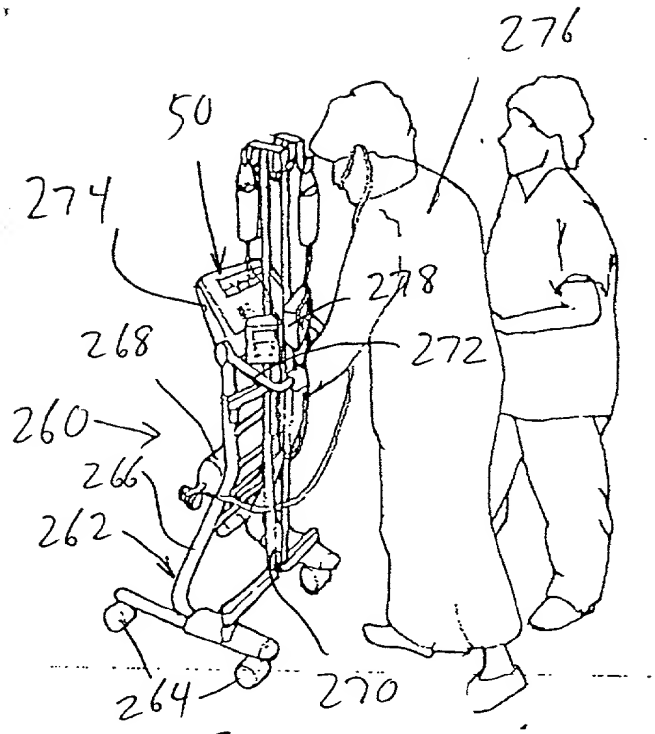


FIG. 20

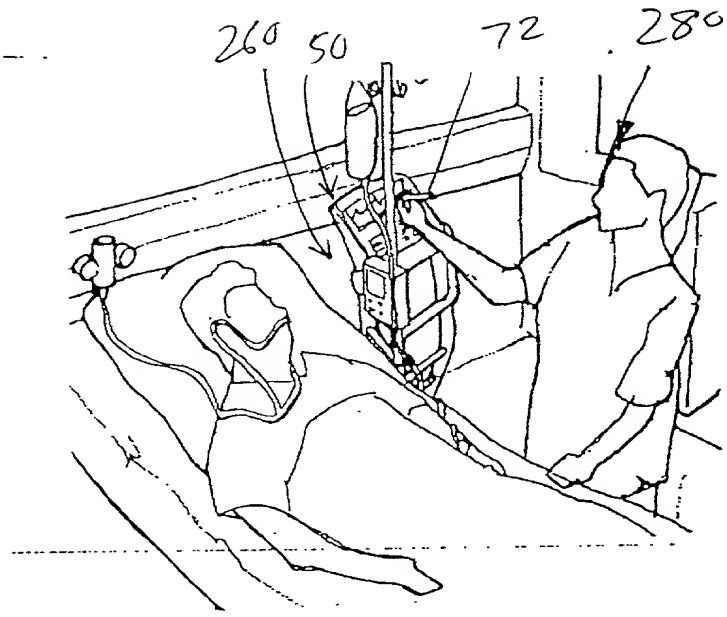


FIG. 21

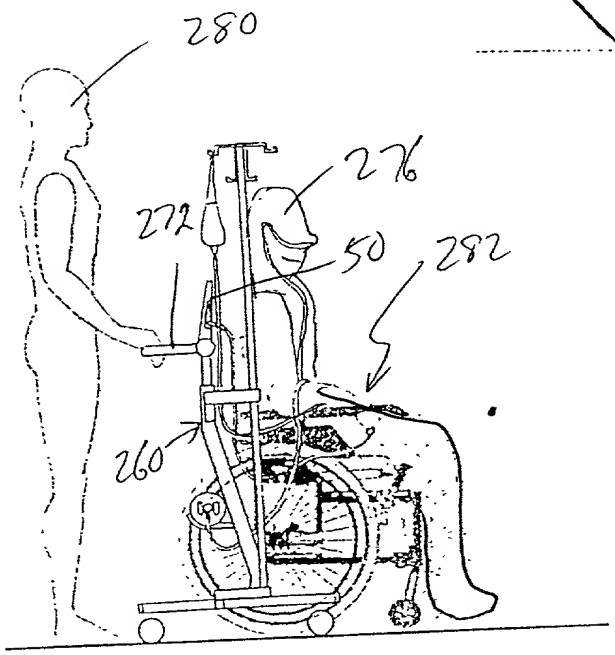


FIG. 22

Patent Application

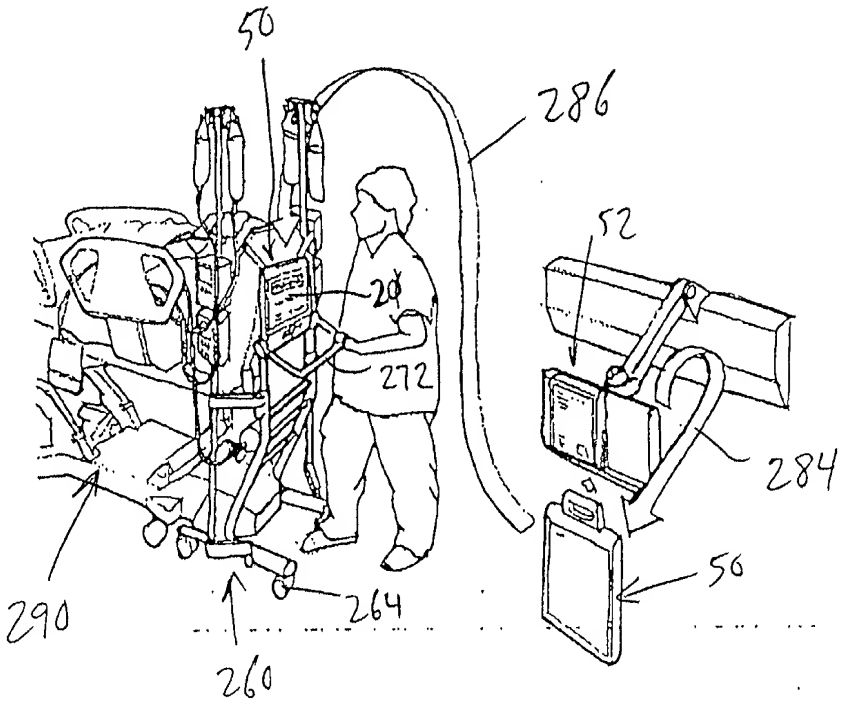


FIG. 23

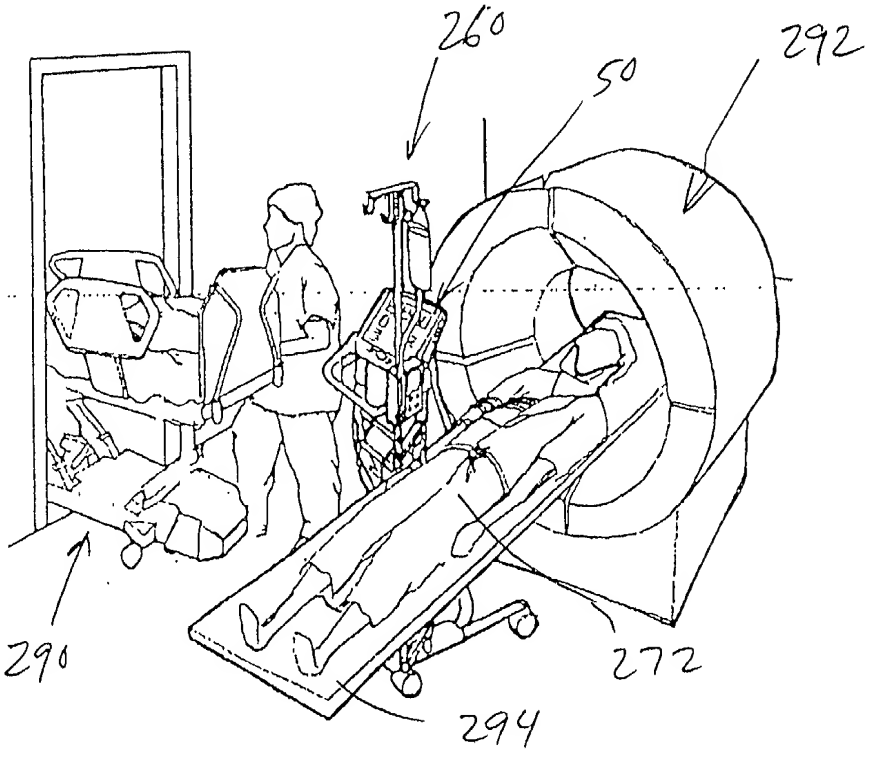


FIG. 24

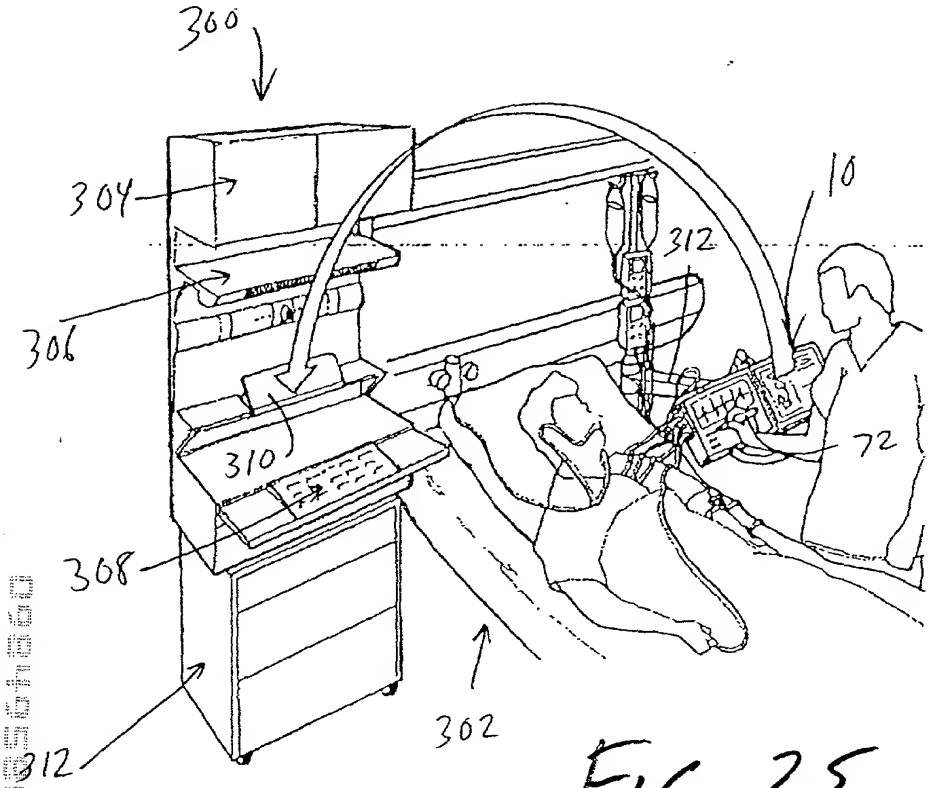


FIG. 25

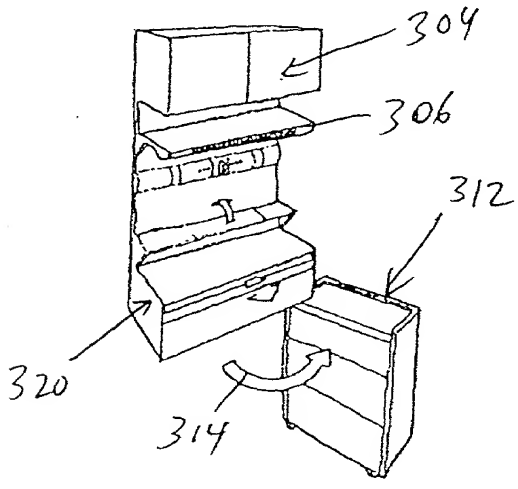


FIG. 26

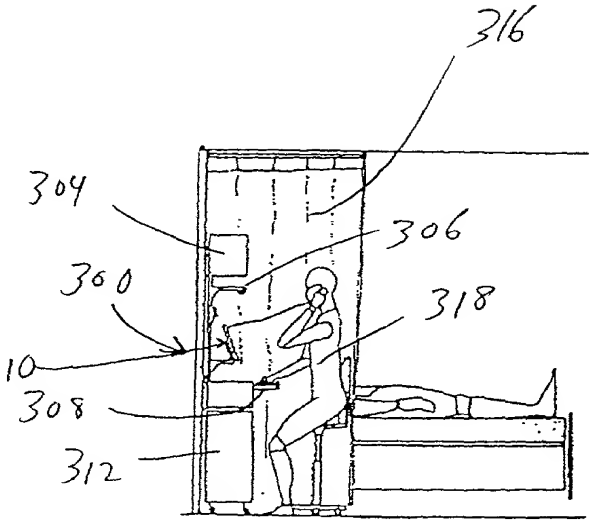


FIG. 27

Electronic Acknowledgement Receipt

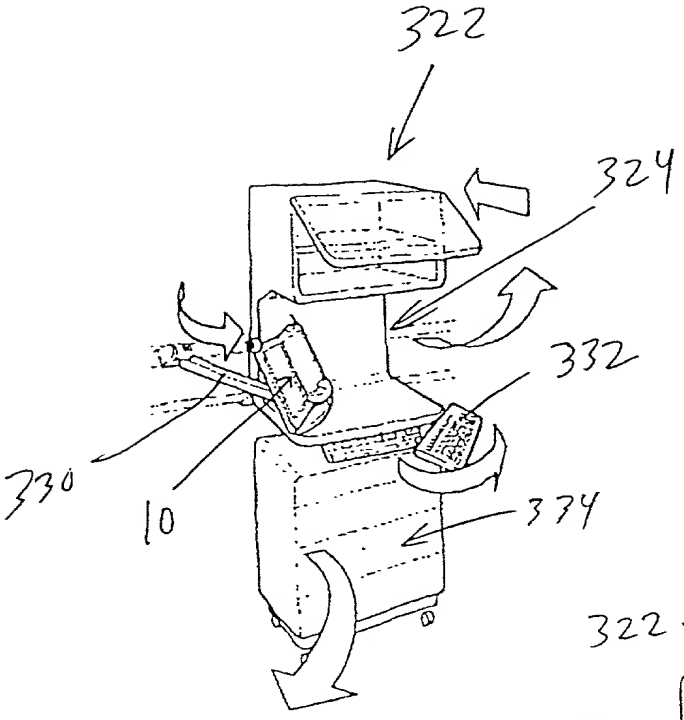


FIG. 29

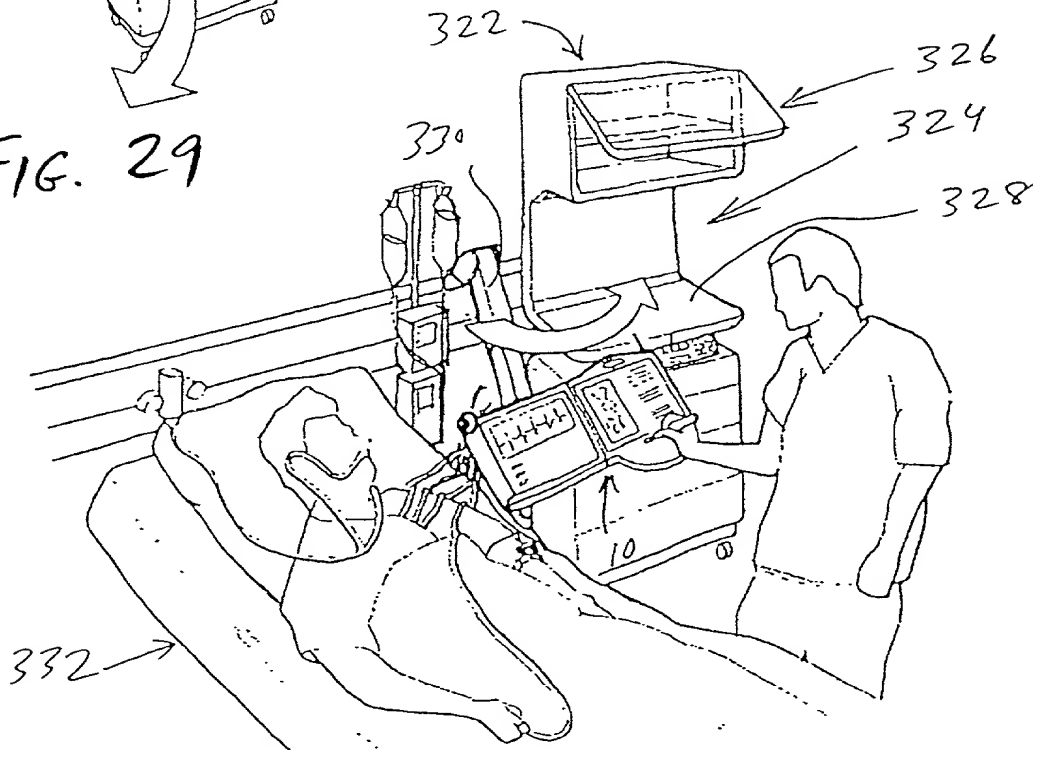
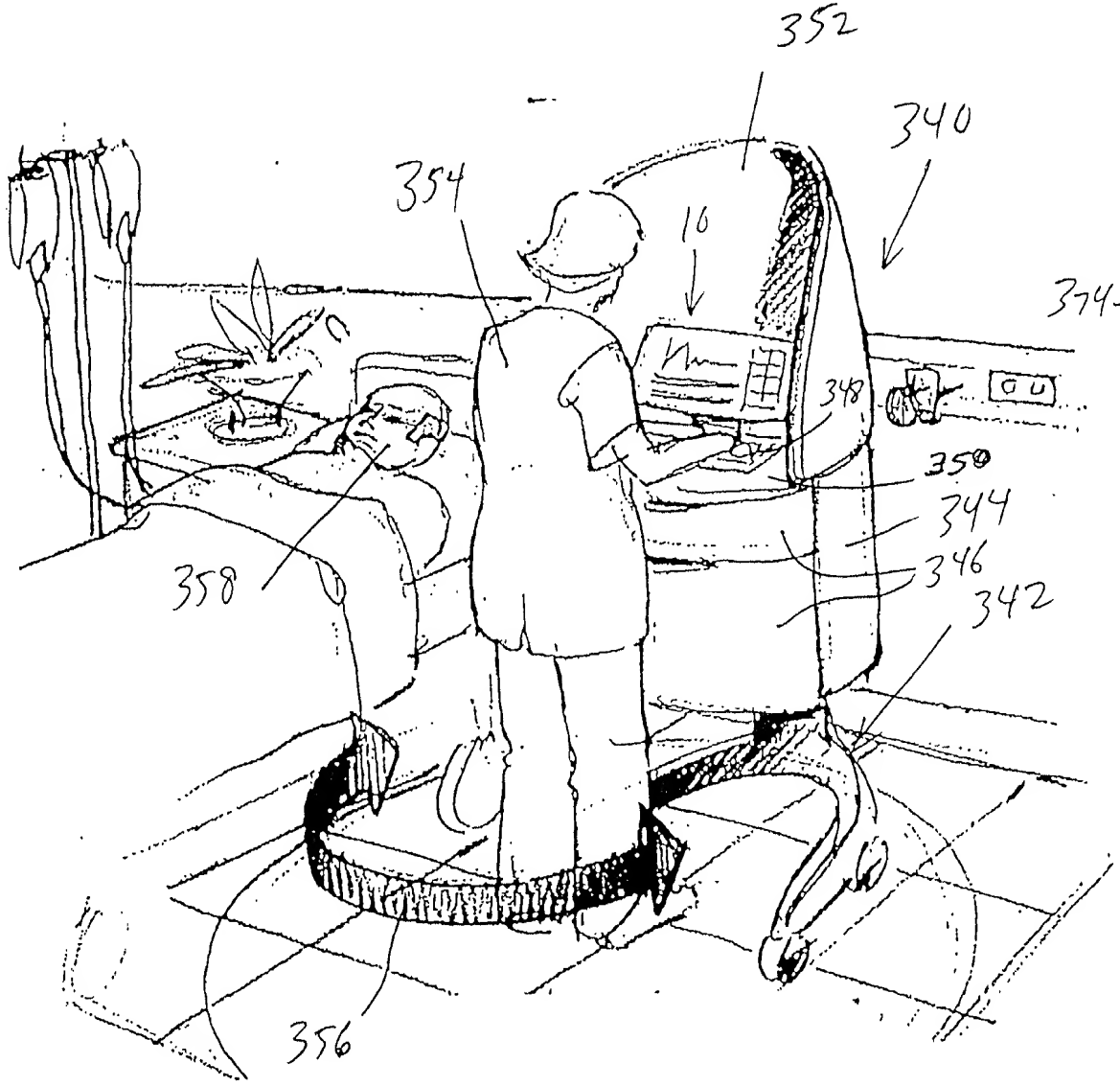


FIG. 28


352
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354
10
348
350
344
346
342
358
356

FIG. 30

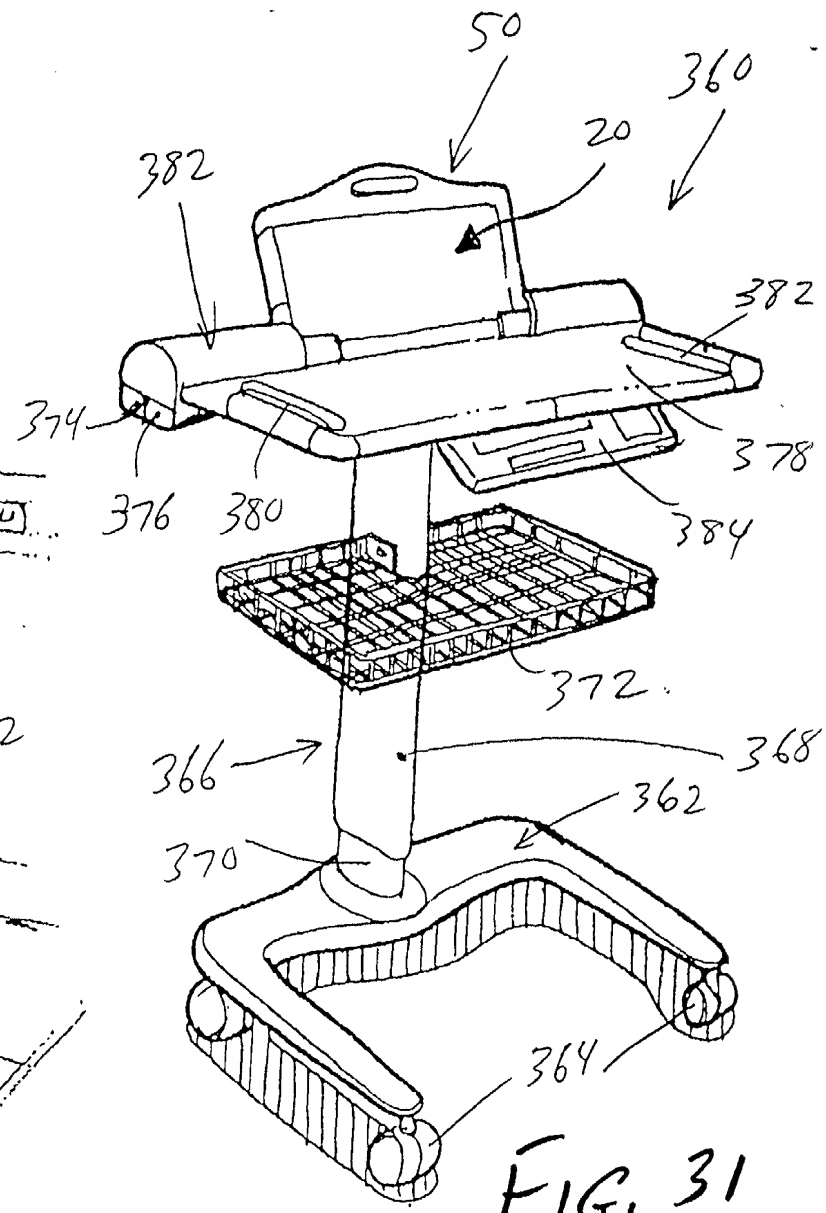
50
360
20
382
382
374
378
376
380
384
372
366
368
362
370
364

FIG. 31

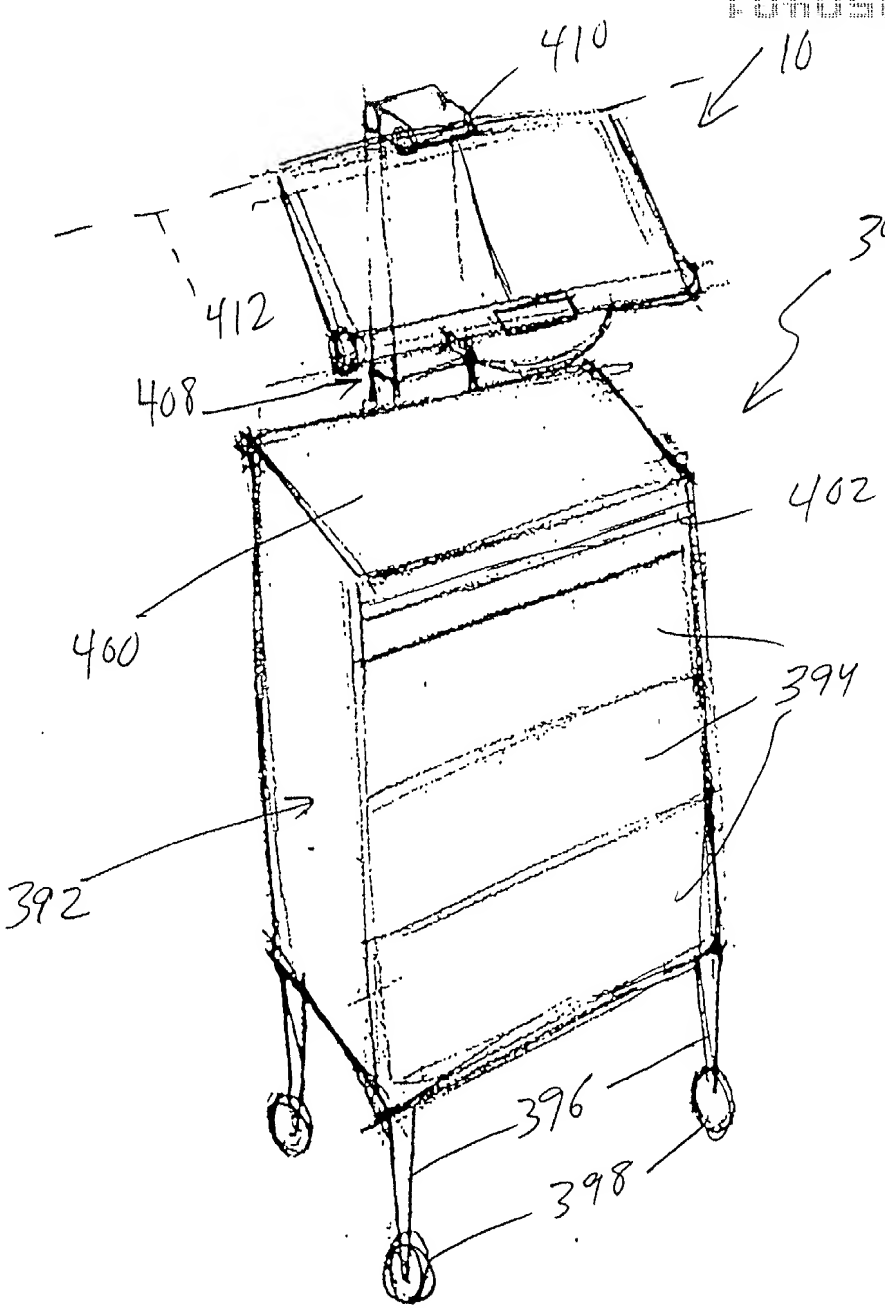
410
10
390
412
408
402
460
394
392
396
398

FIG. 32

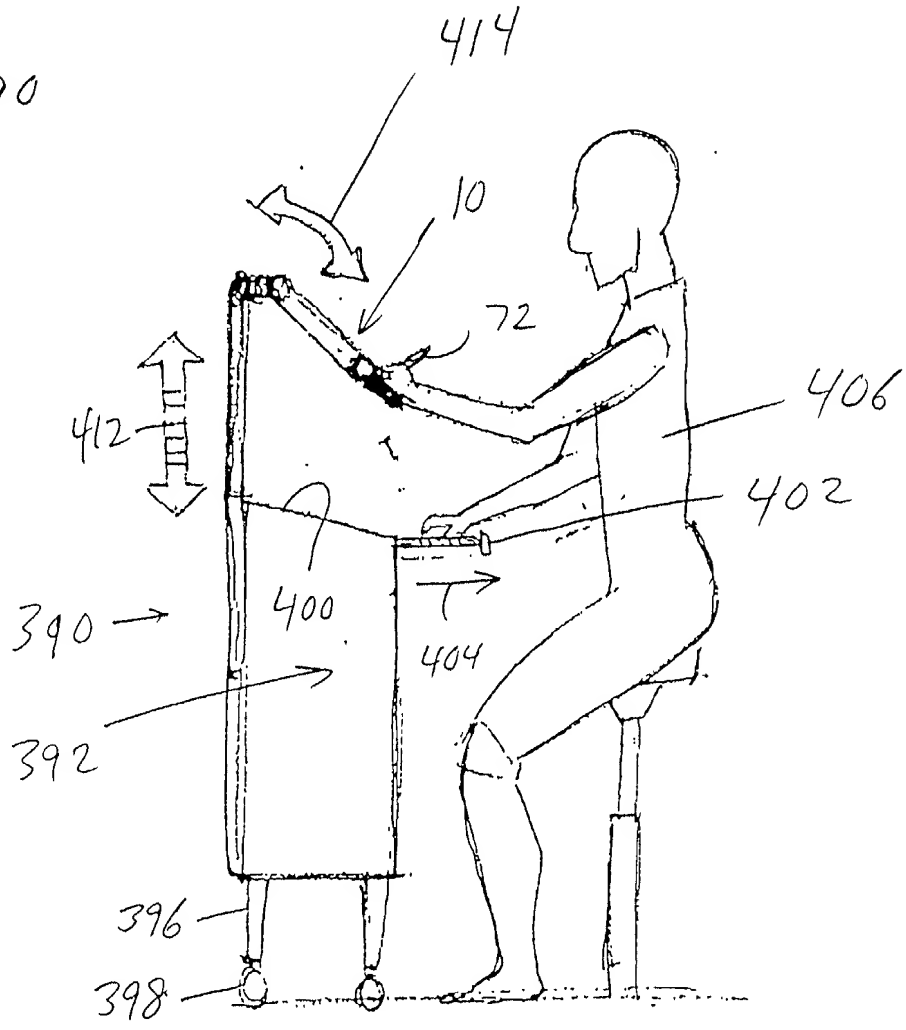
414
10
72
406
412
402
400
390
404
392
396
398

FIG. 33

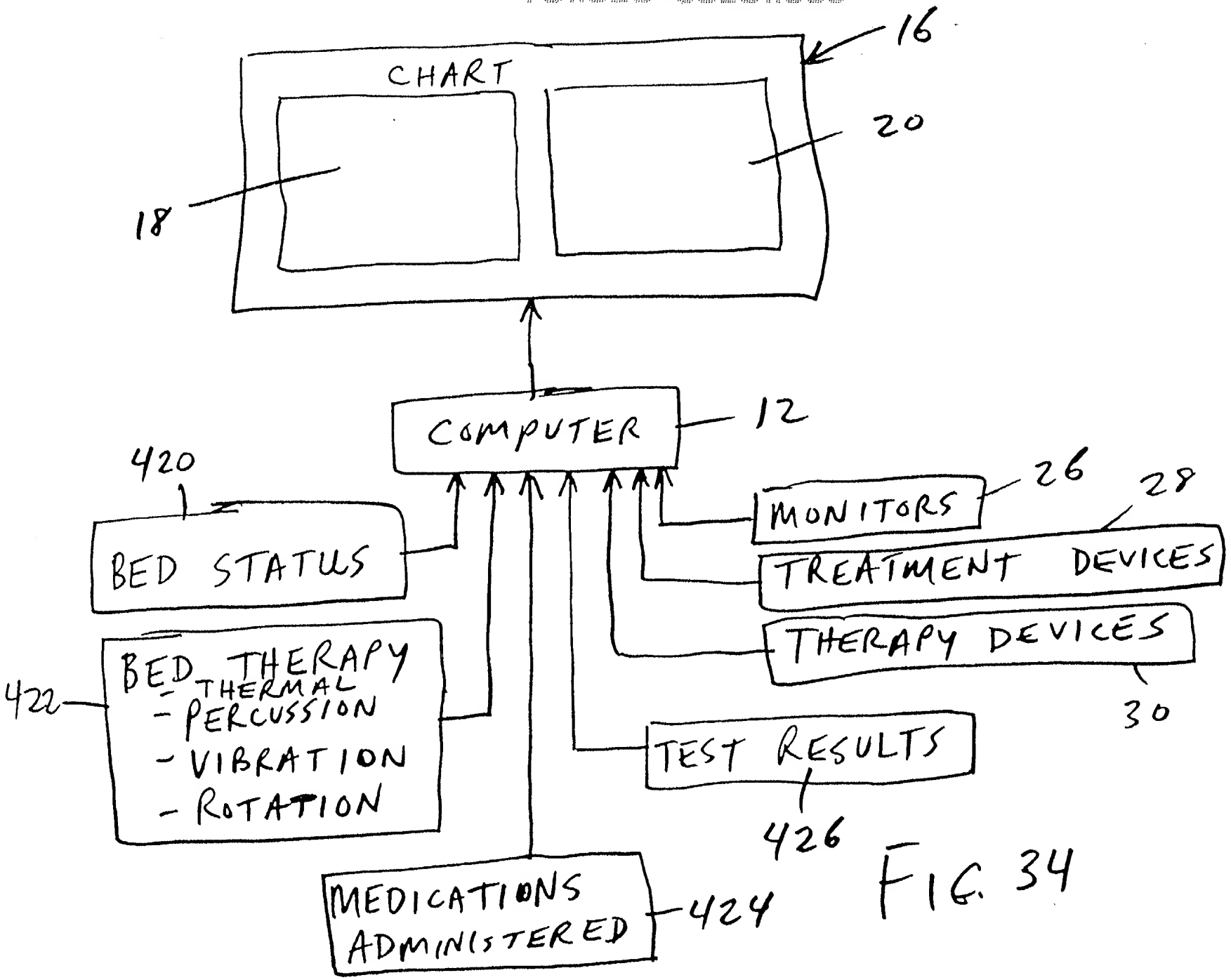
CHART
16
18
20
COMPUTER
12
420
BED STATUS
MONITORS
26
28
TREATMENT DEVICES
THERAPY DEVICES
30
422
BED THERAPY
- THERMAL
- PERCUSSION
- VIBRATION
- ROTATION
TEST RESULTS
426
MEDICATIONS ADMINISTERED
424

FIG. 34

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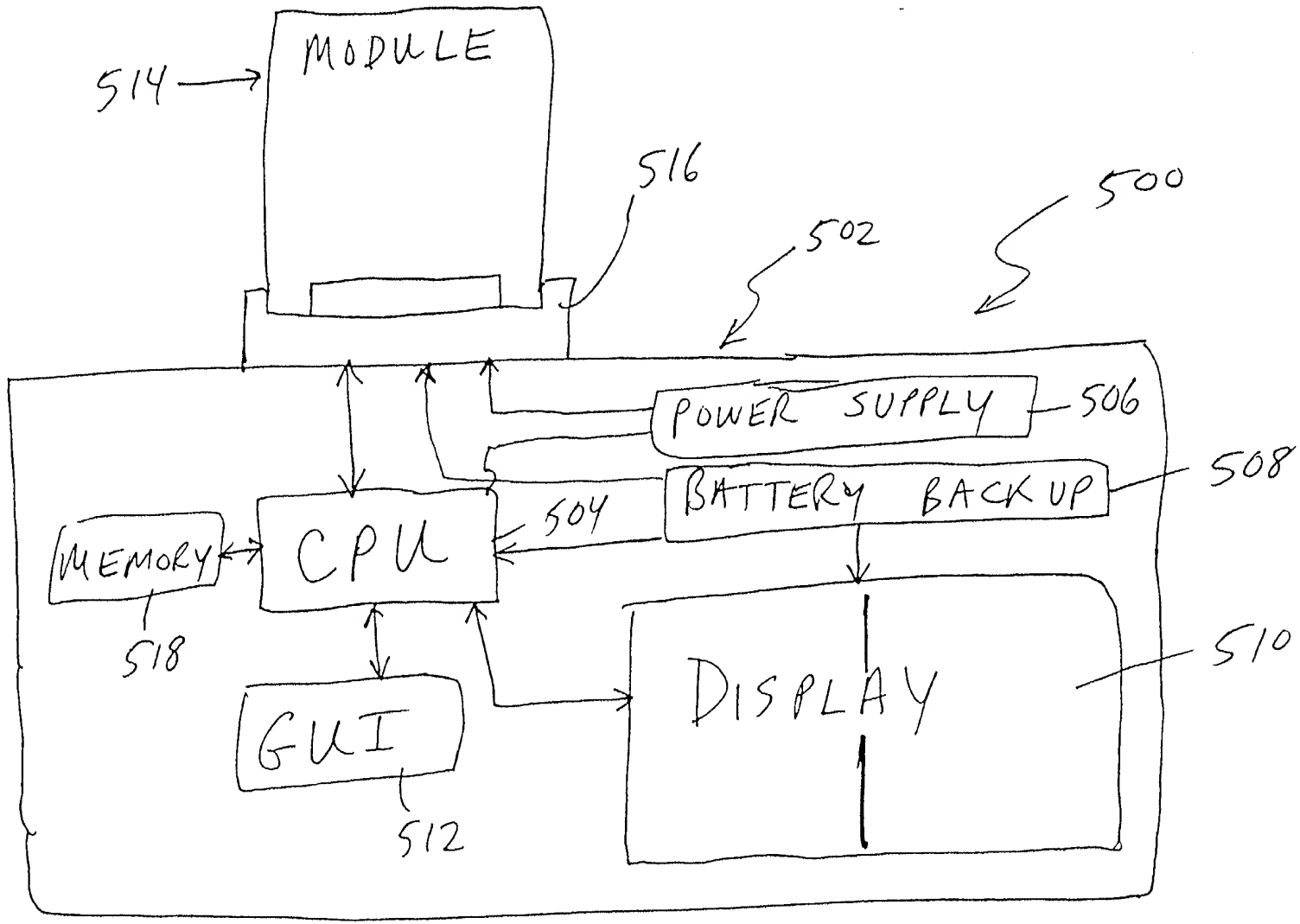

FIG. 35

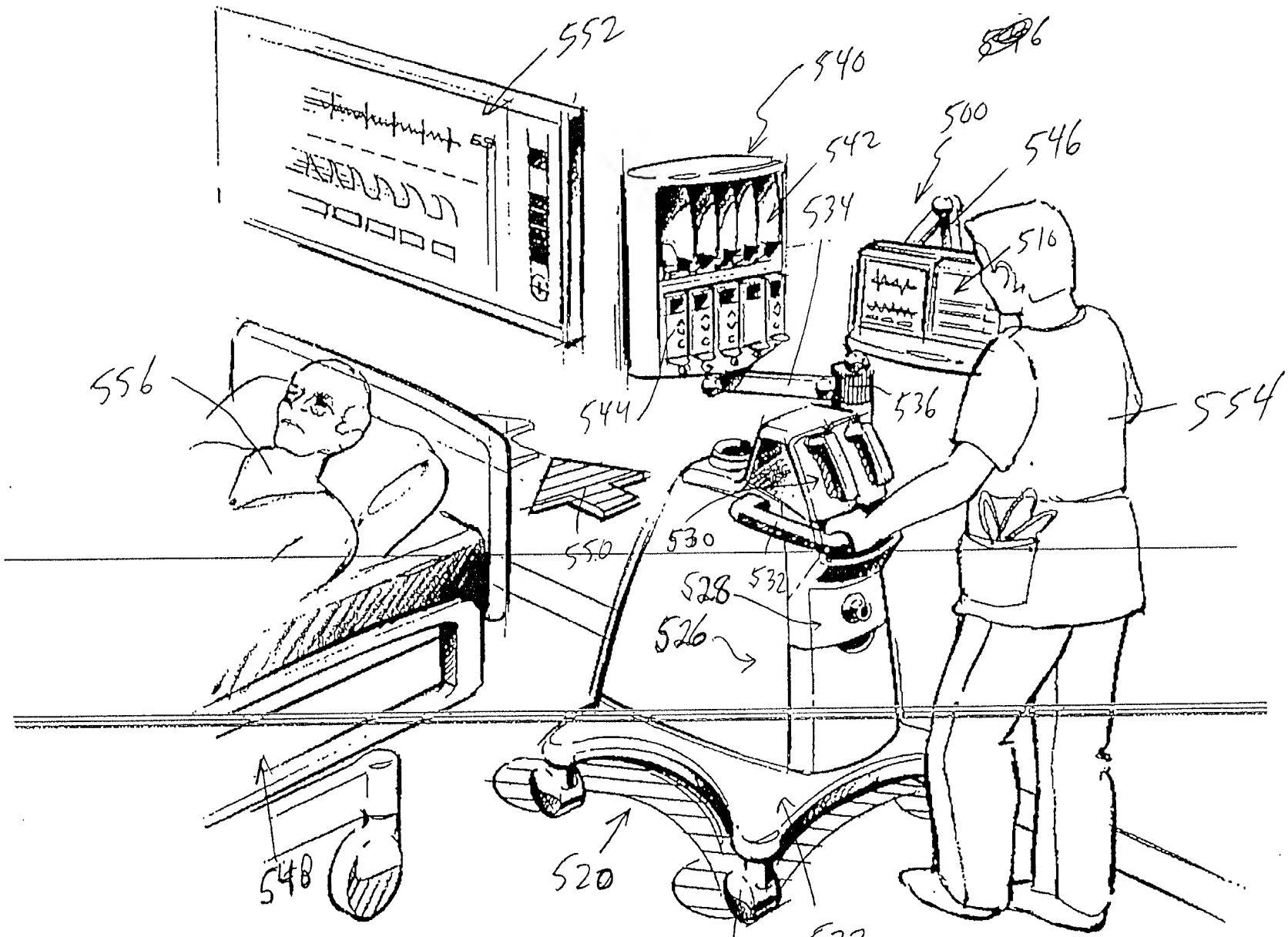
552
540
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FIG. 36

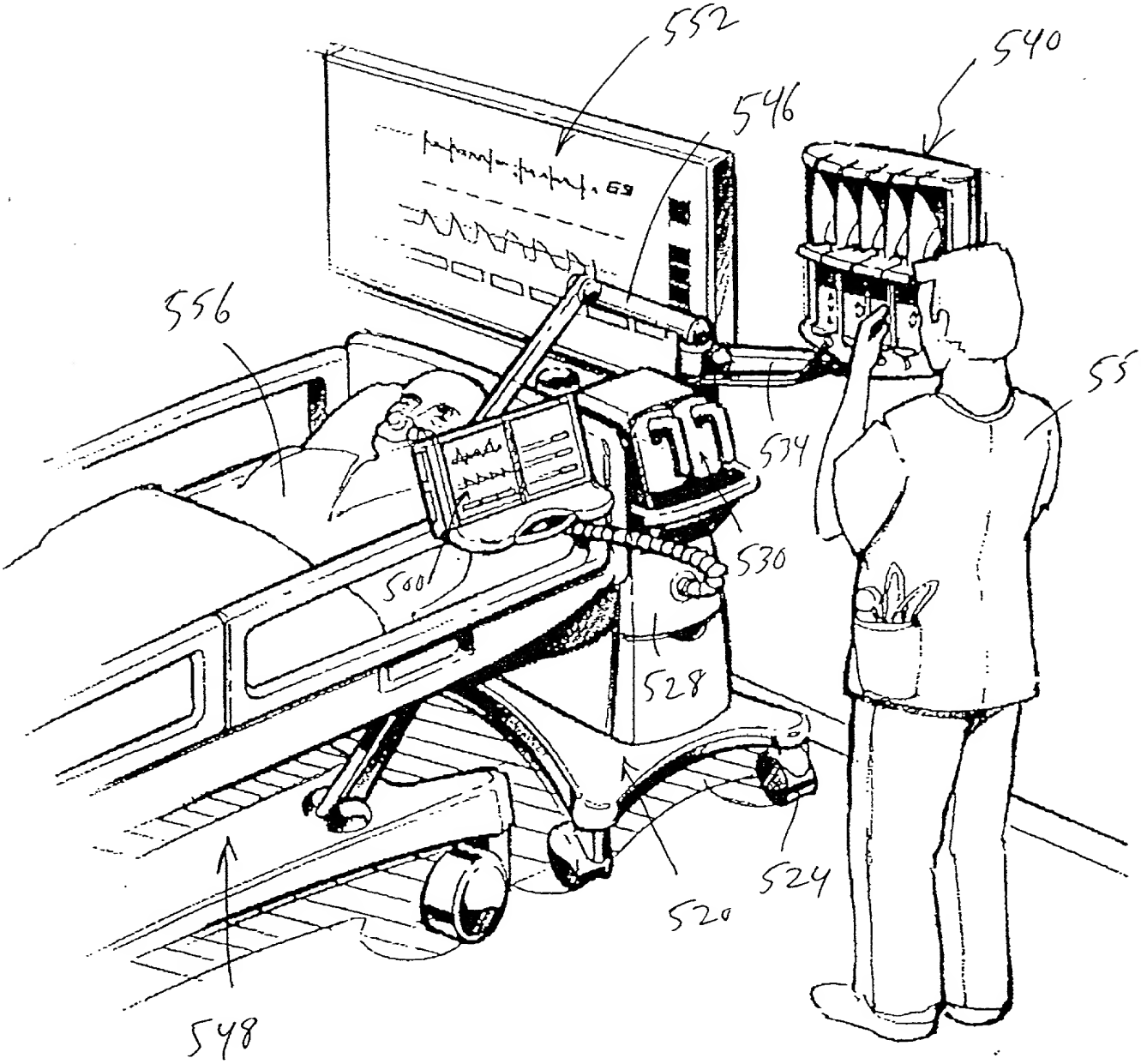

FIG. 37

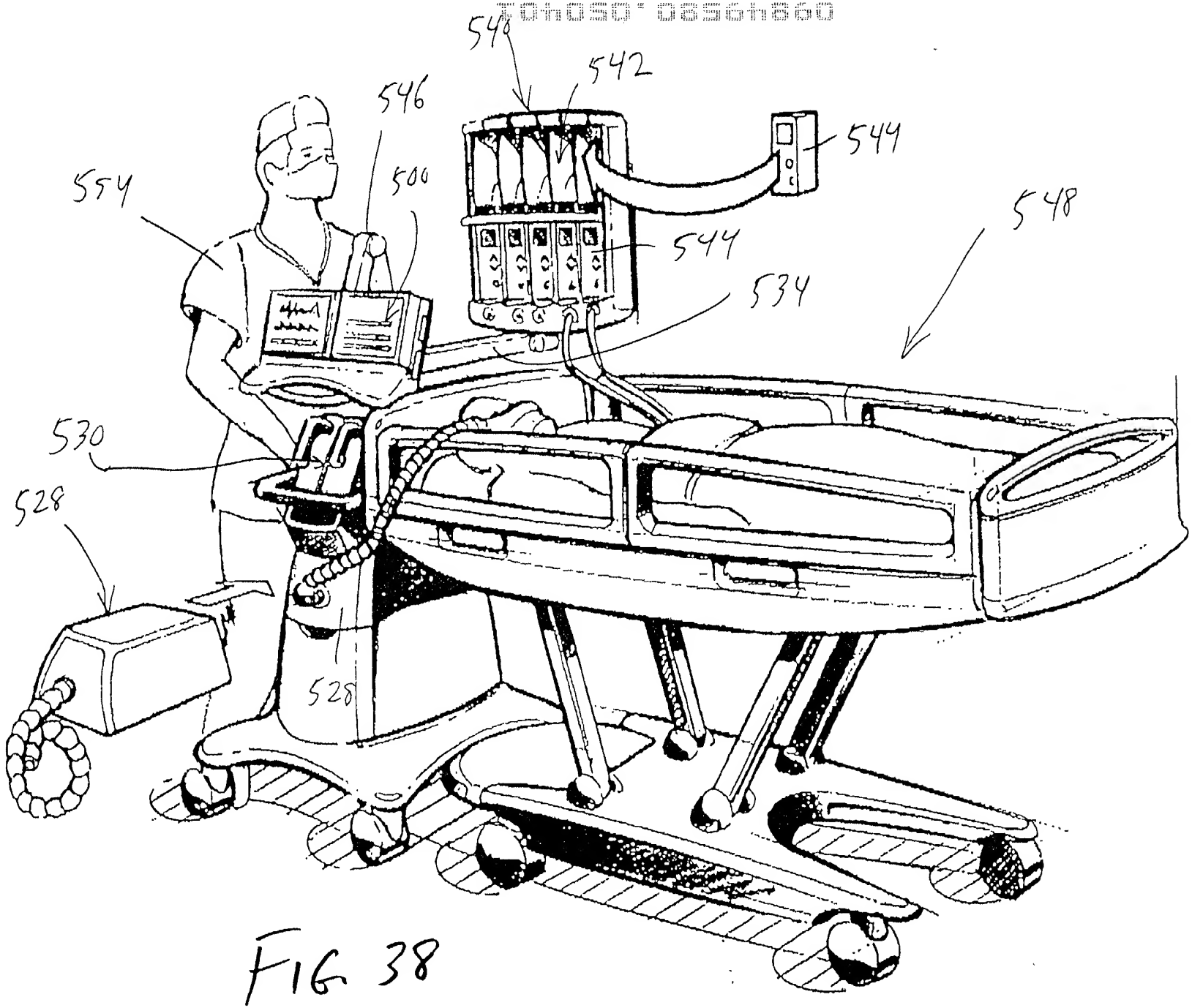

FIG 38

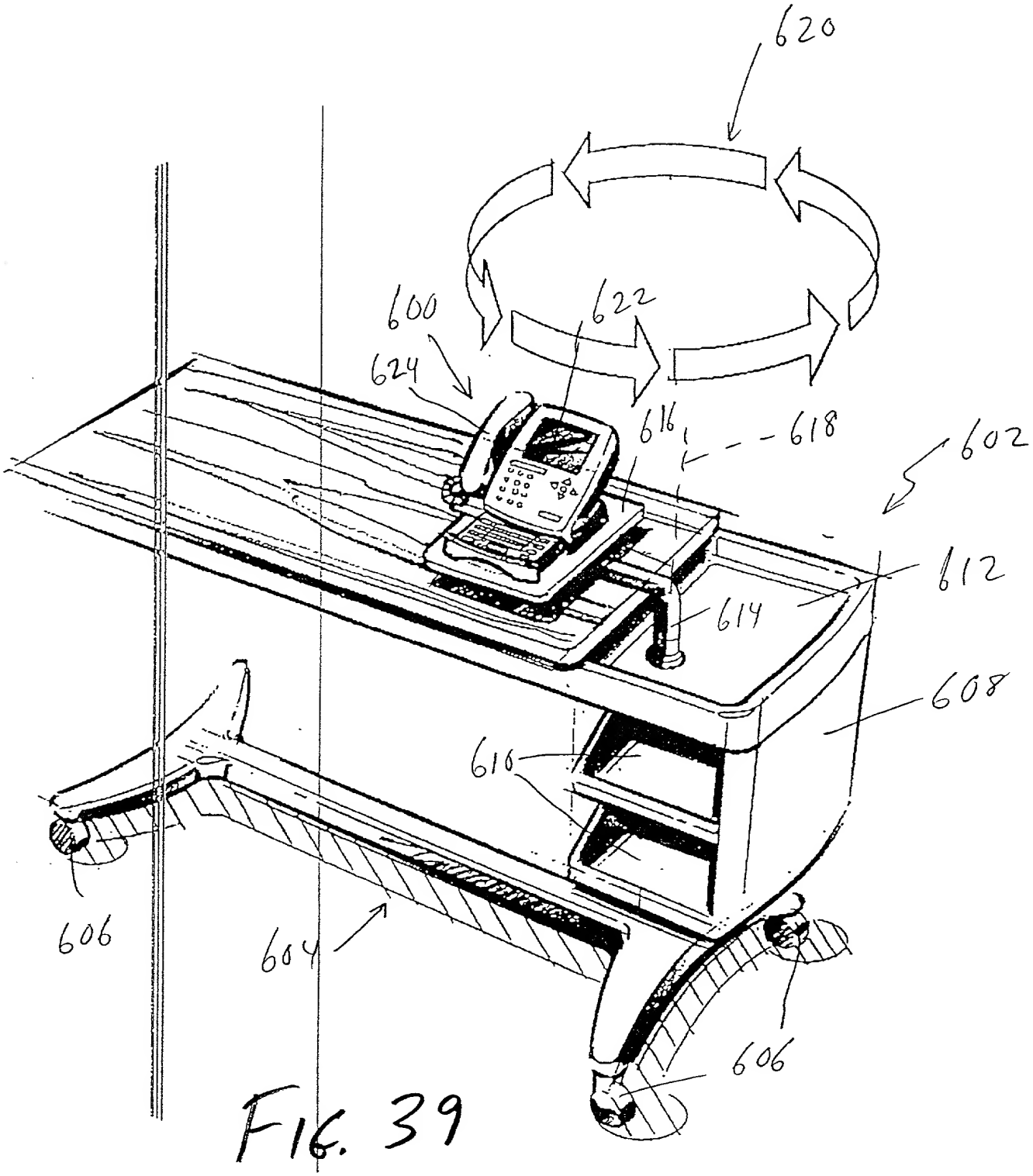

FIG. 39

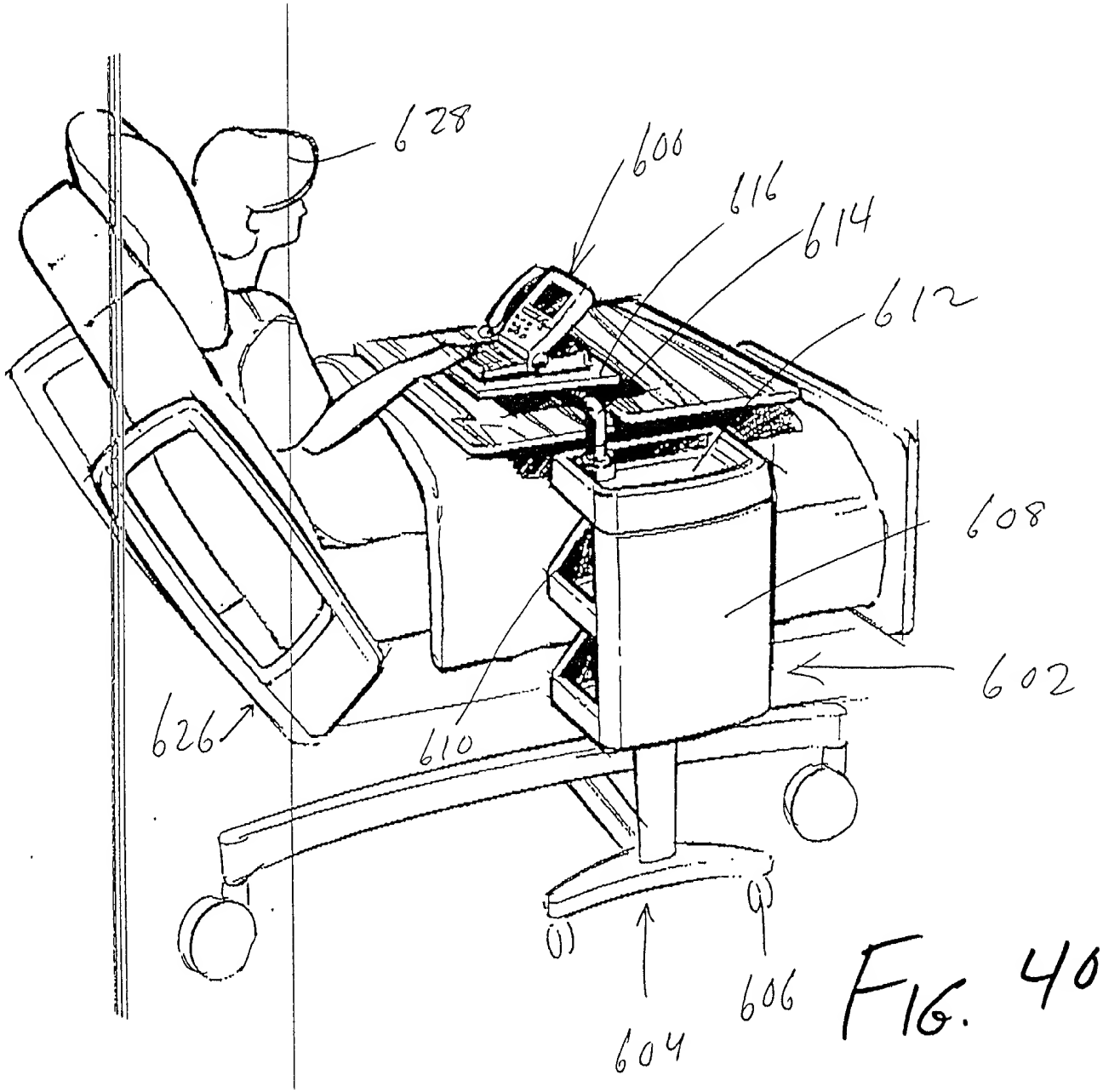

FIG. 40

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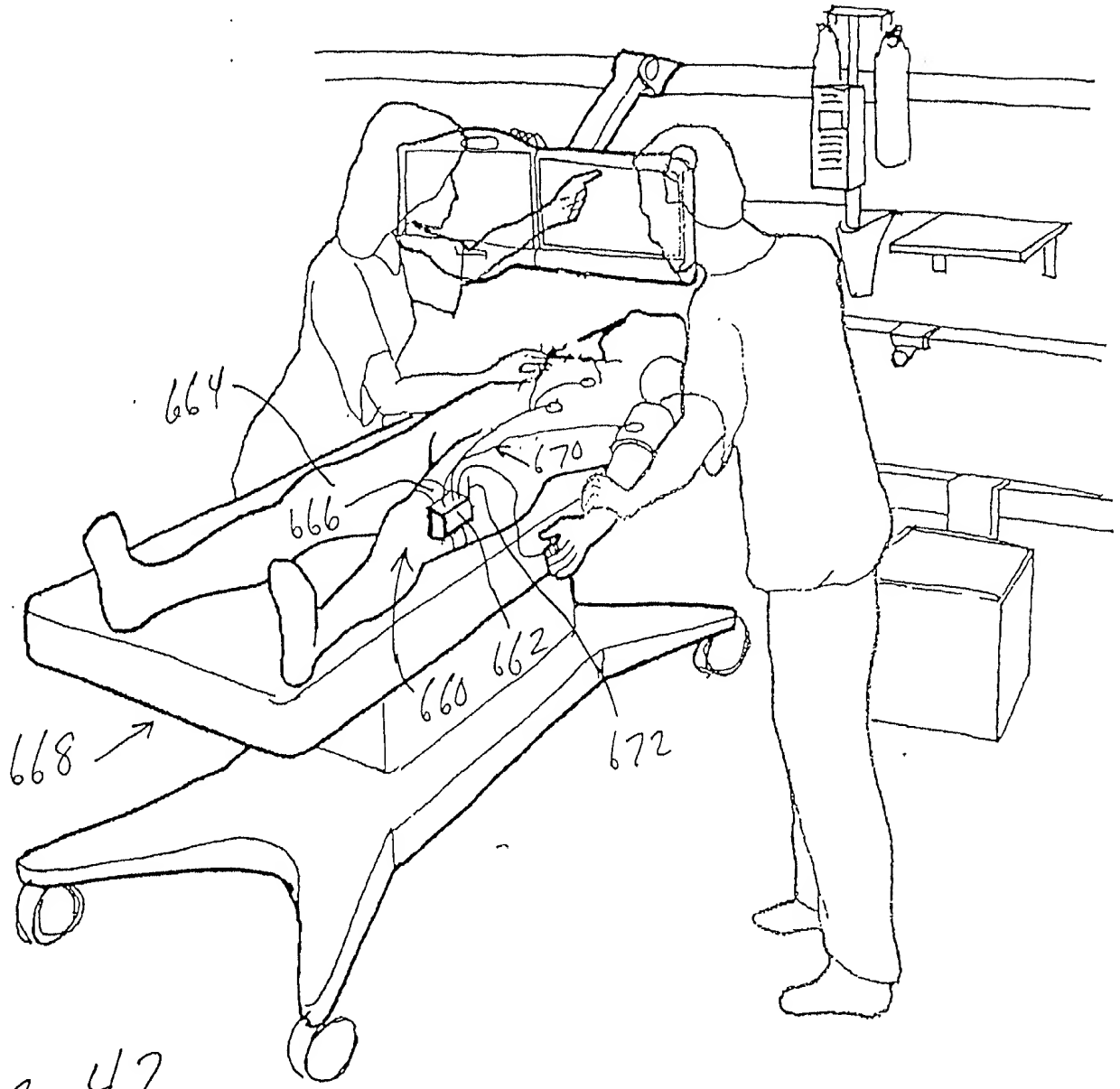


FIG. 42

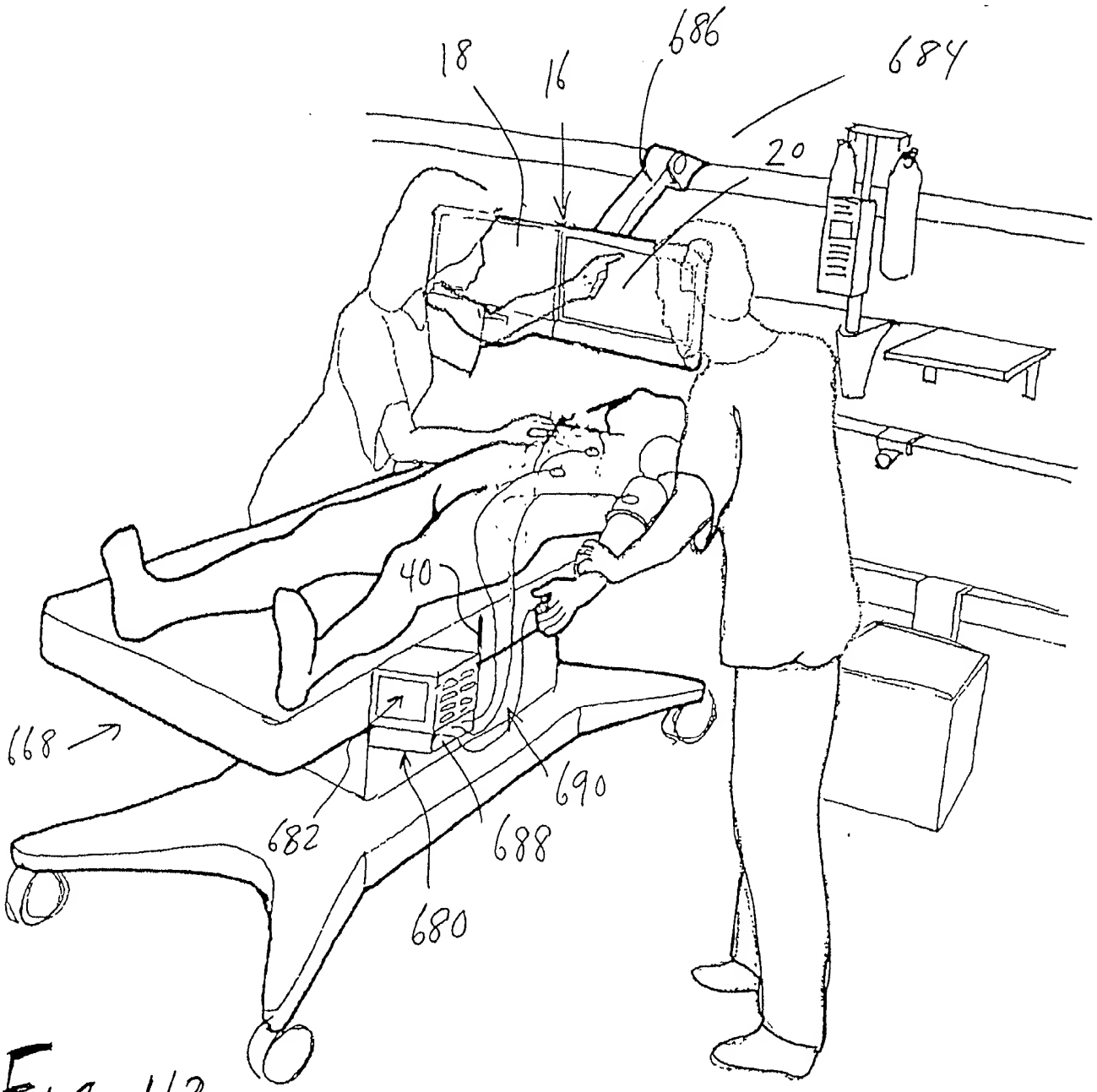


FIG. 43

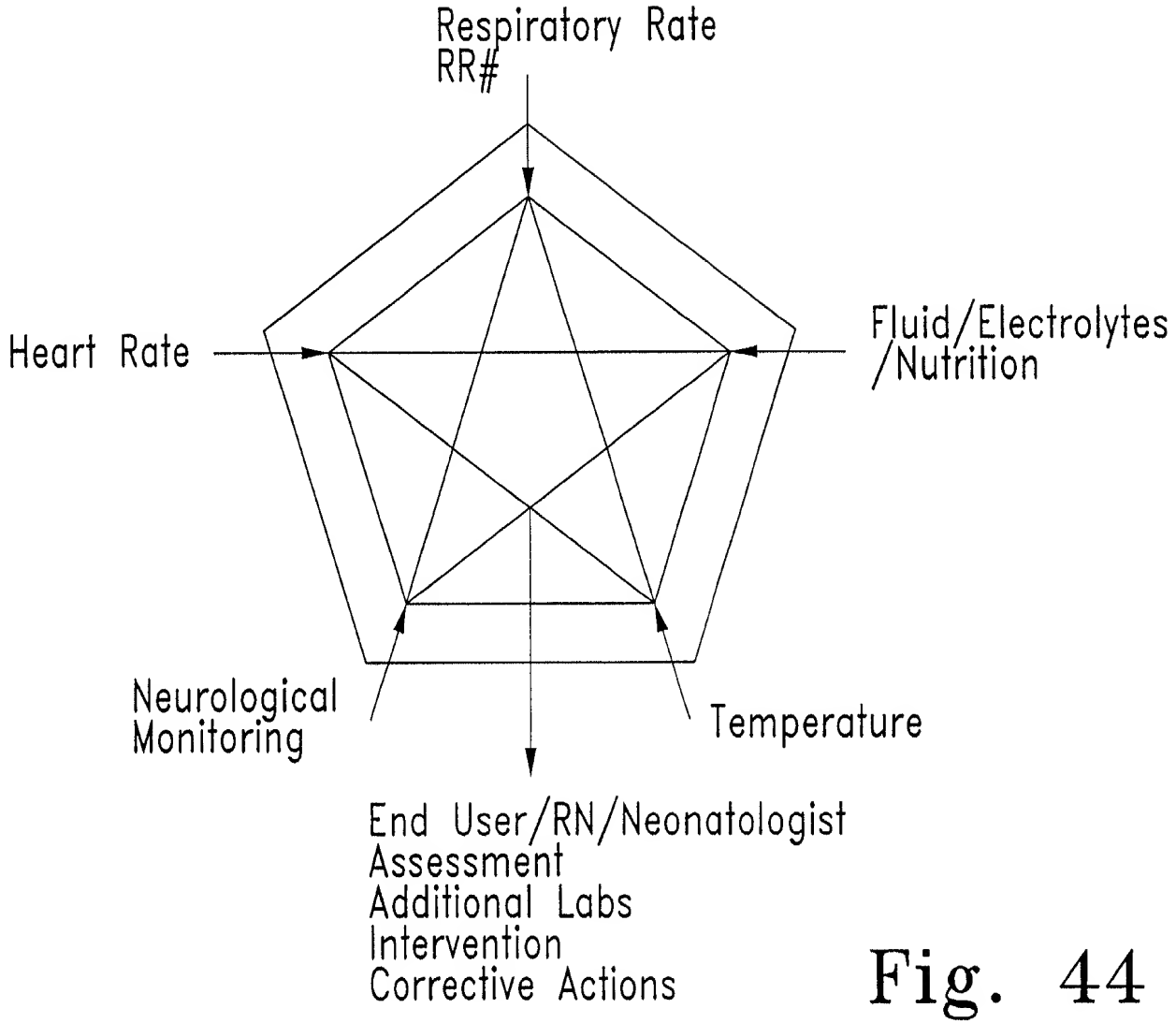

Respiratory Rate
RR#
Heart Rate
Fluid/Electrolytes
/Nutrition
Neurological
Monitoring
Temperature
End User/RN/Neonatologist
Assessment
Additional Labs
Intervention
Corrective Actions

Fig. 44

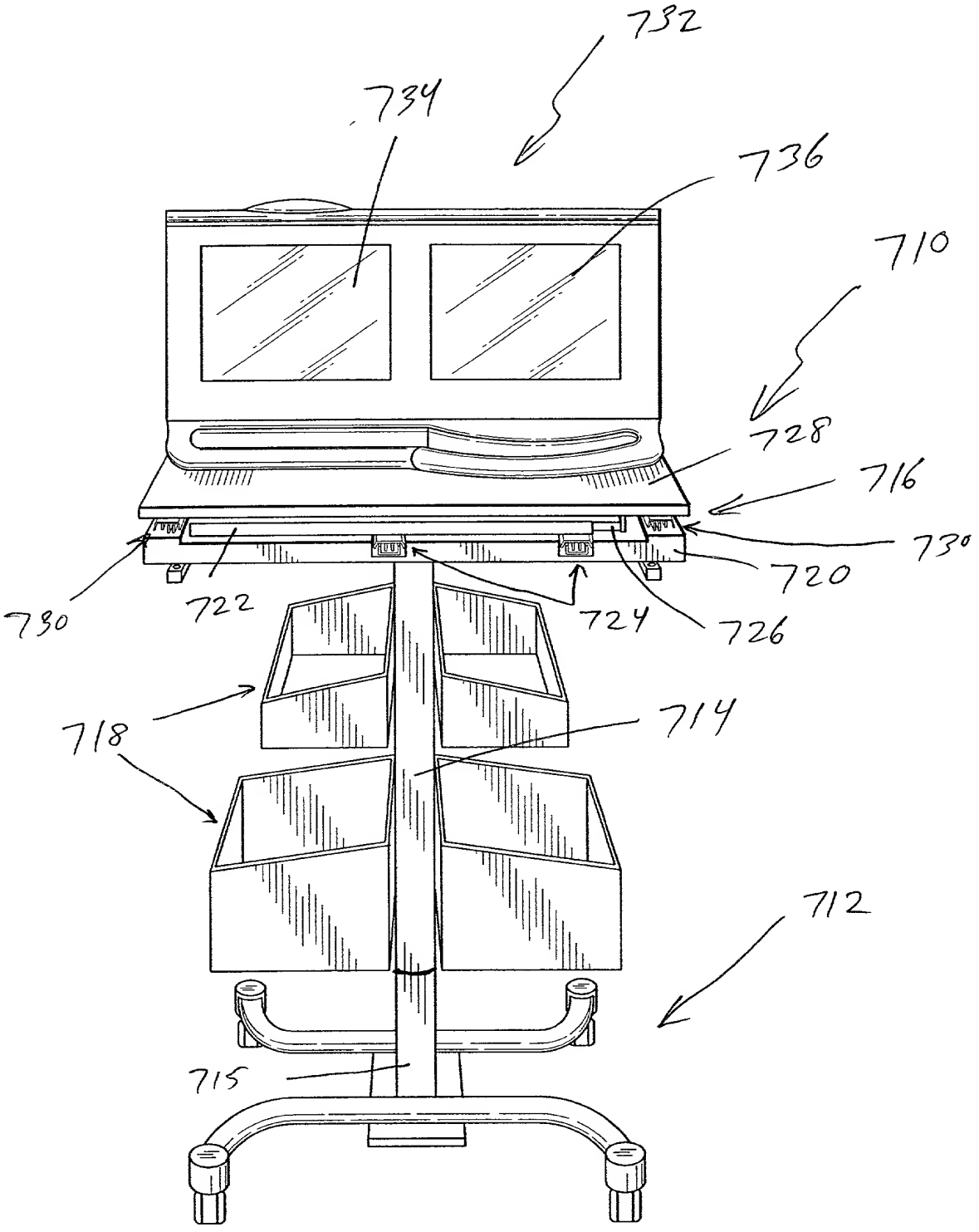


Fig. 45

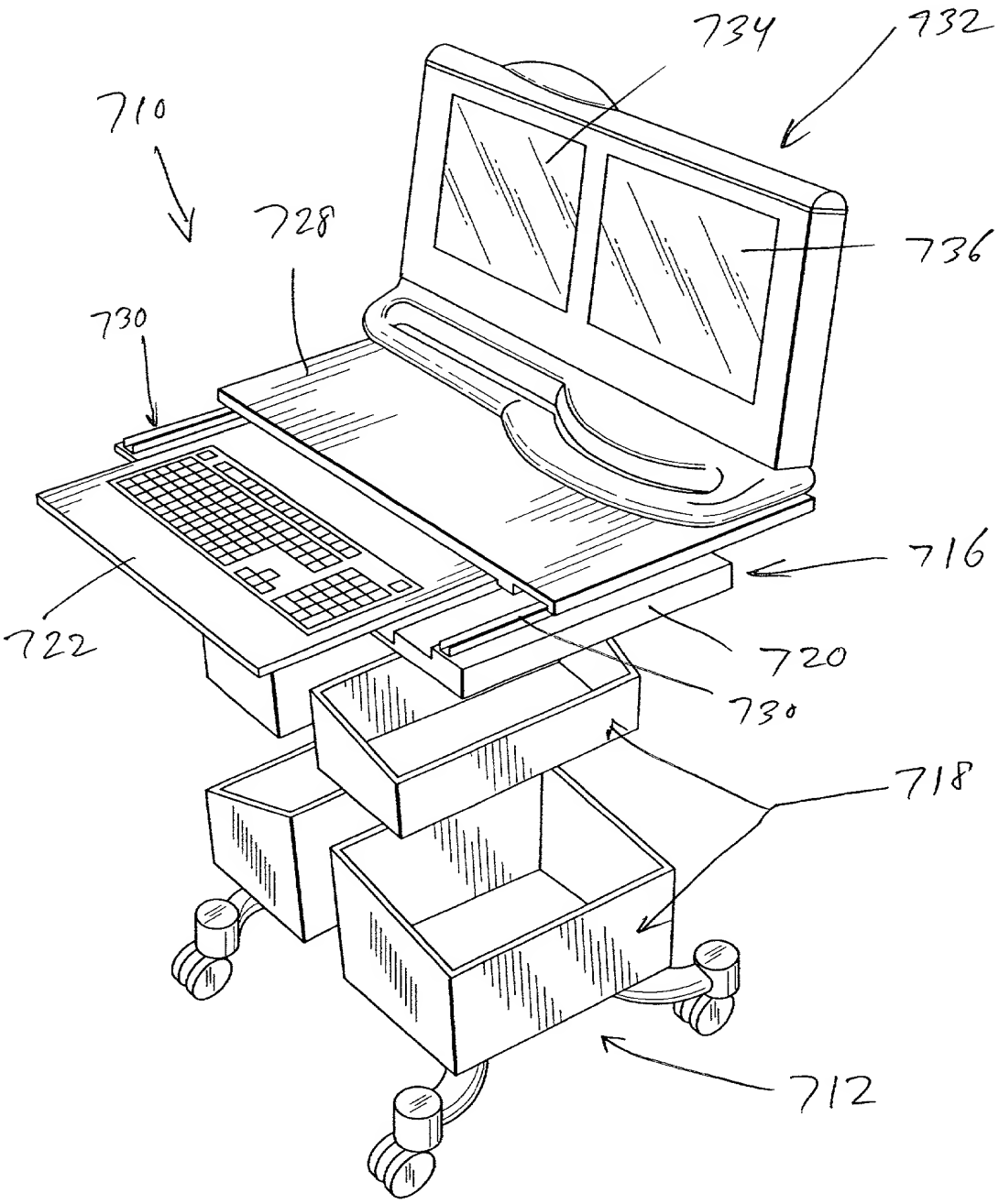
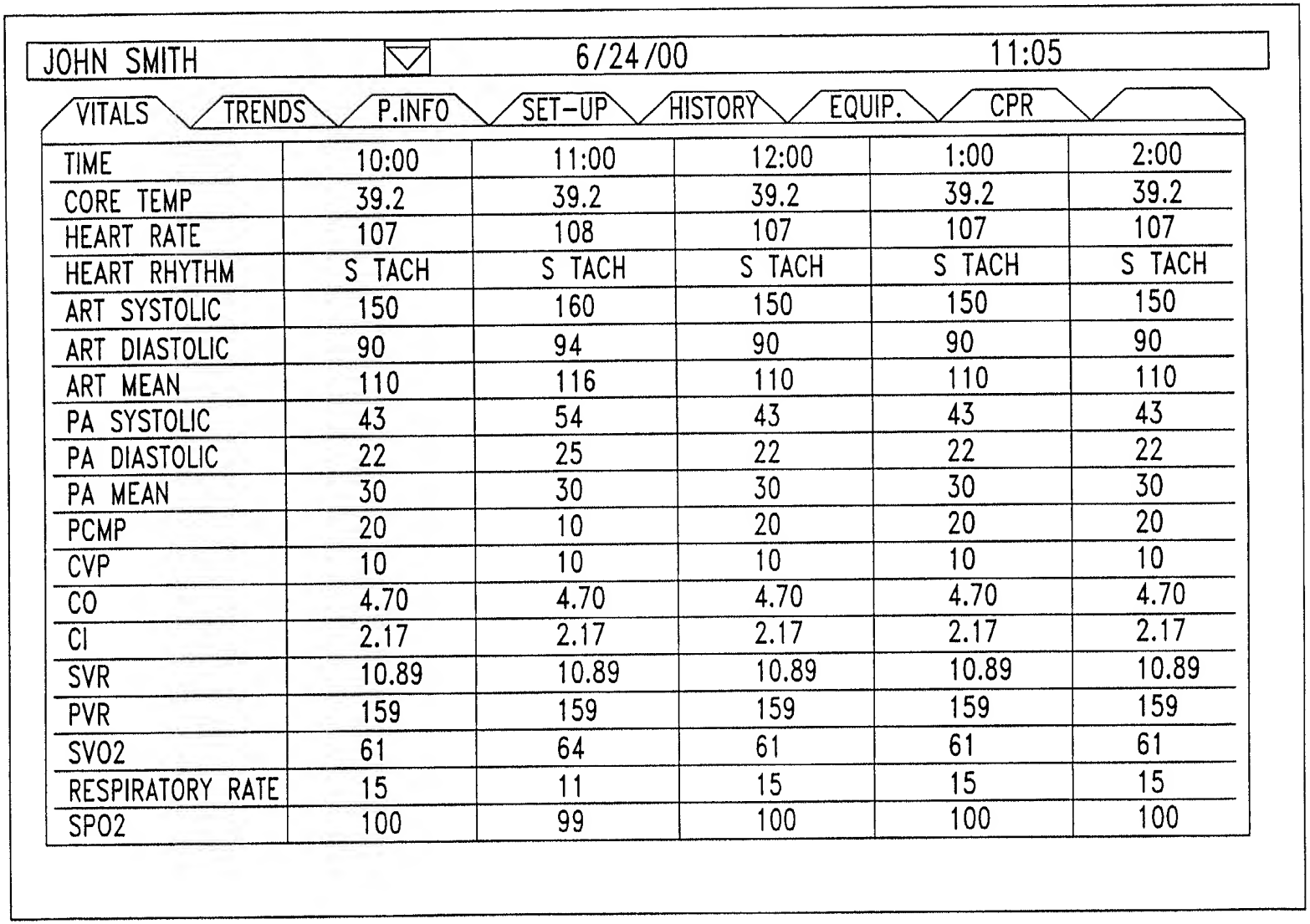


Fig. 46



TIME	10:00	11:00	12:00	1:00	2:00
CORE TEMP	39.2	39.2	39.2	39.2	39.2
HEART RATE	107	108	107	107	107
HEART RHYTHM	S TACH	S TACH	S TACH	S TACH	S TACH
ART SYSTOLIC	150	160	150	150	150
ART DIASTOLIC	90	94	90	90	90
ART MEAN	110	116	110	110	110
PA SYSTOLIC	43	54	43	43	43
PA DIASTOLIC	22	25	22	22	22
PA MEAN	30	30	30	30	30
PCMP	20	10	20	20	20
CVP	10	10	10	10	10
CO	4.70	4.70	4.70	4.70	4.70
CI	2.17	2.17	2.17	2.17	2.17
SVR	10.89	10.89	10.89	10.89	10.89
PVR	159	159	159	159	159
SVO2	61	64	61	61	61
RESPIRATORY RATE	15	11	15	15	15
SPO2	100	99	100	100	100

Fig. 47A

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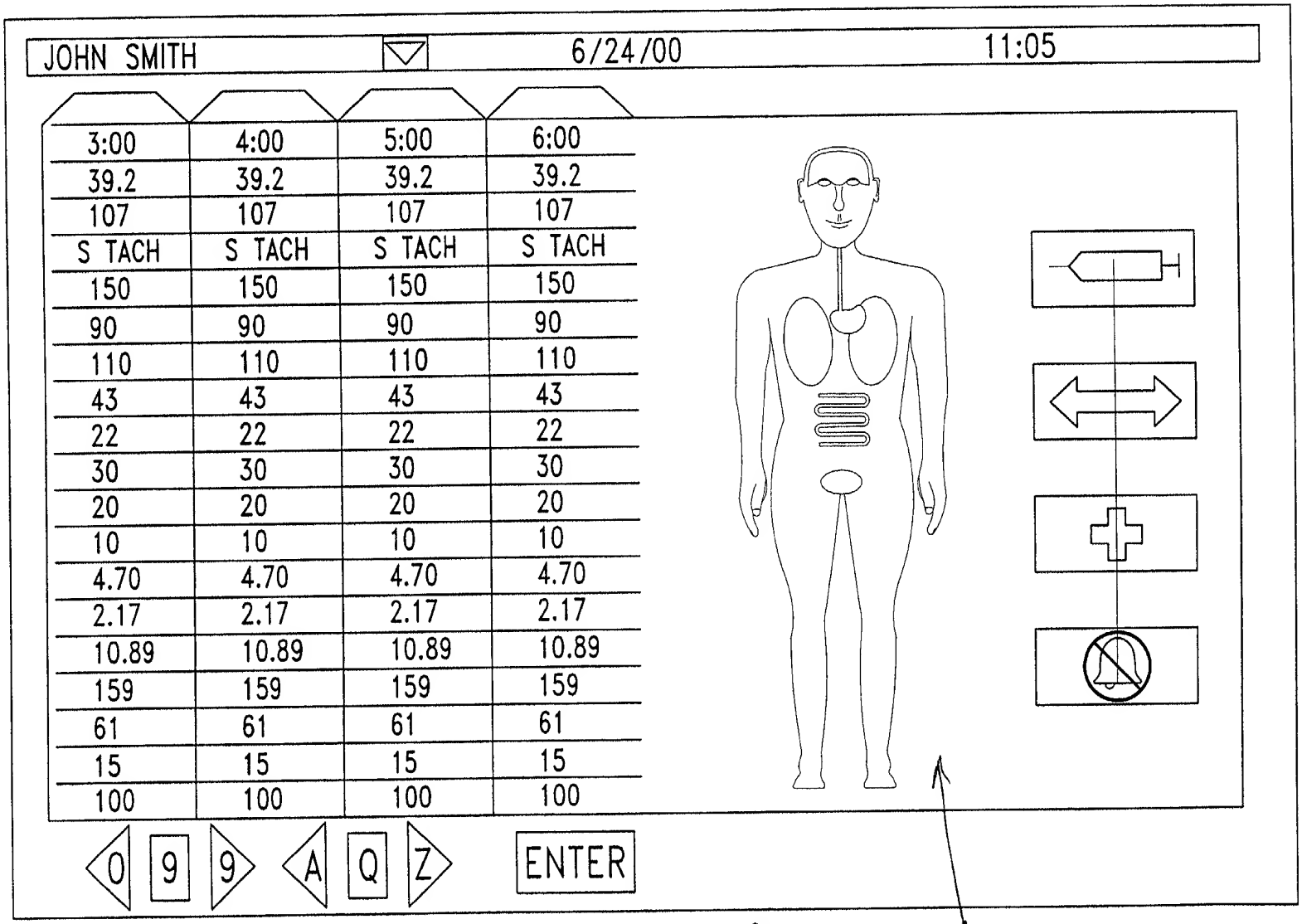


Fig. 47B

T0A050 0896A60

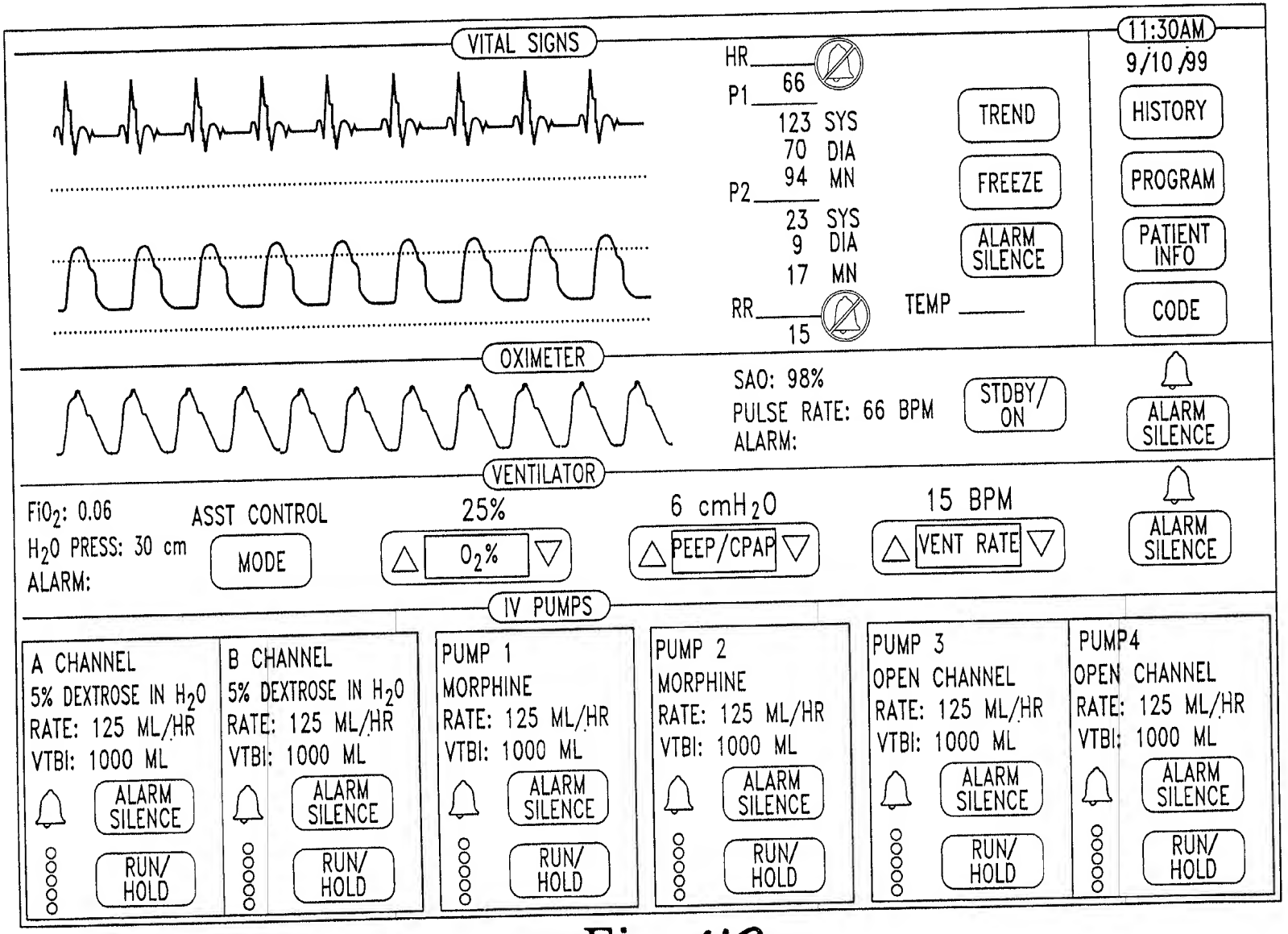


Fig. 48

Patented: 06 September 2016

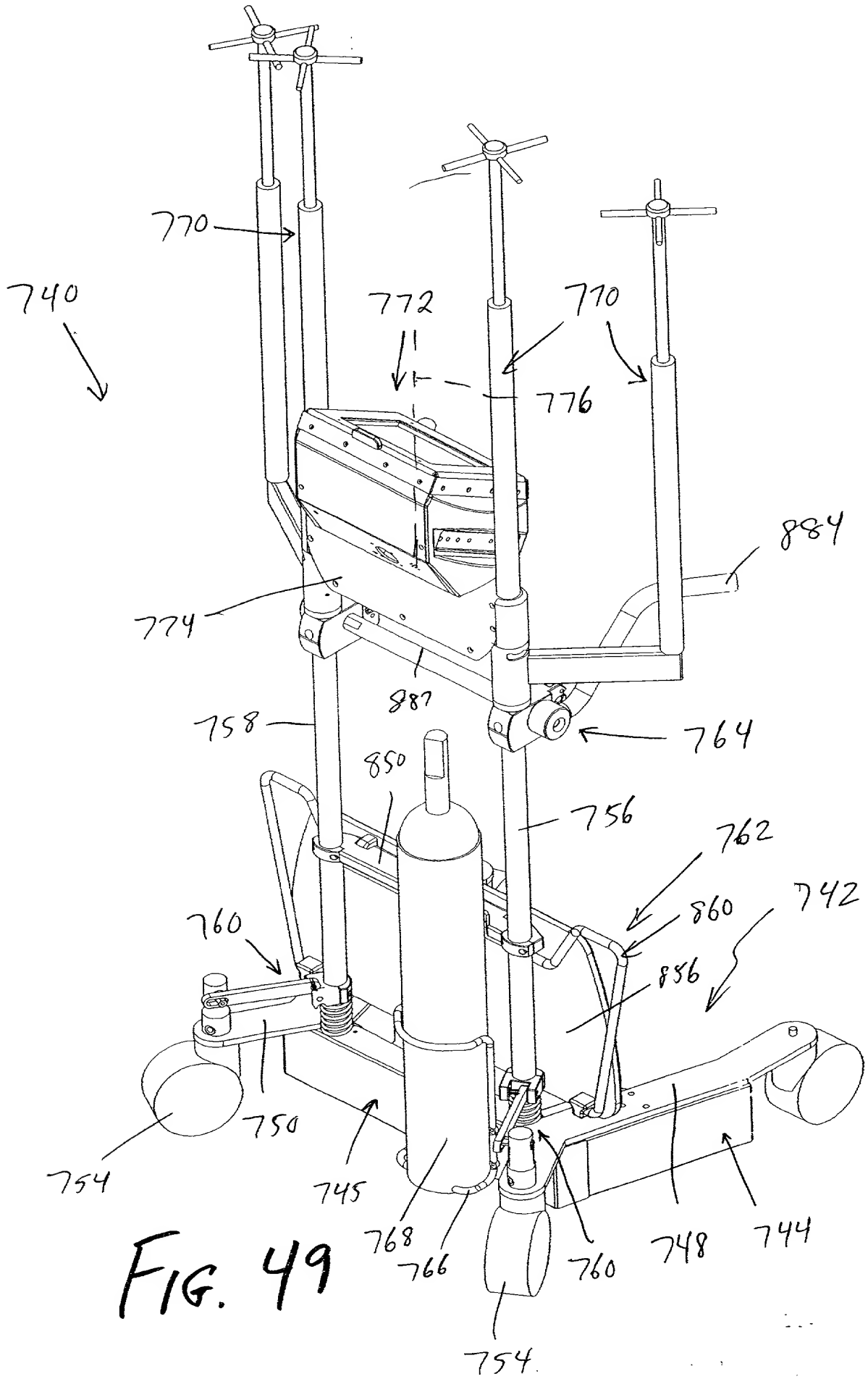


FIG. 49

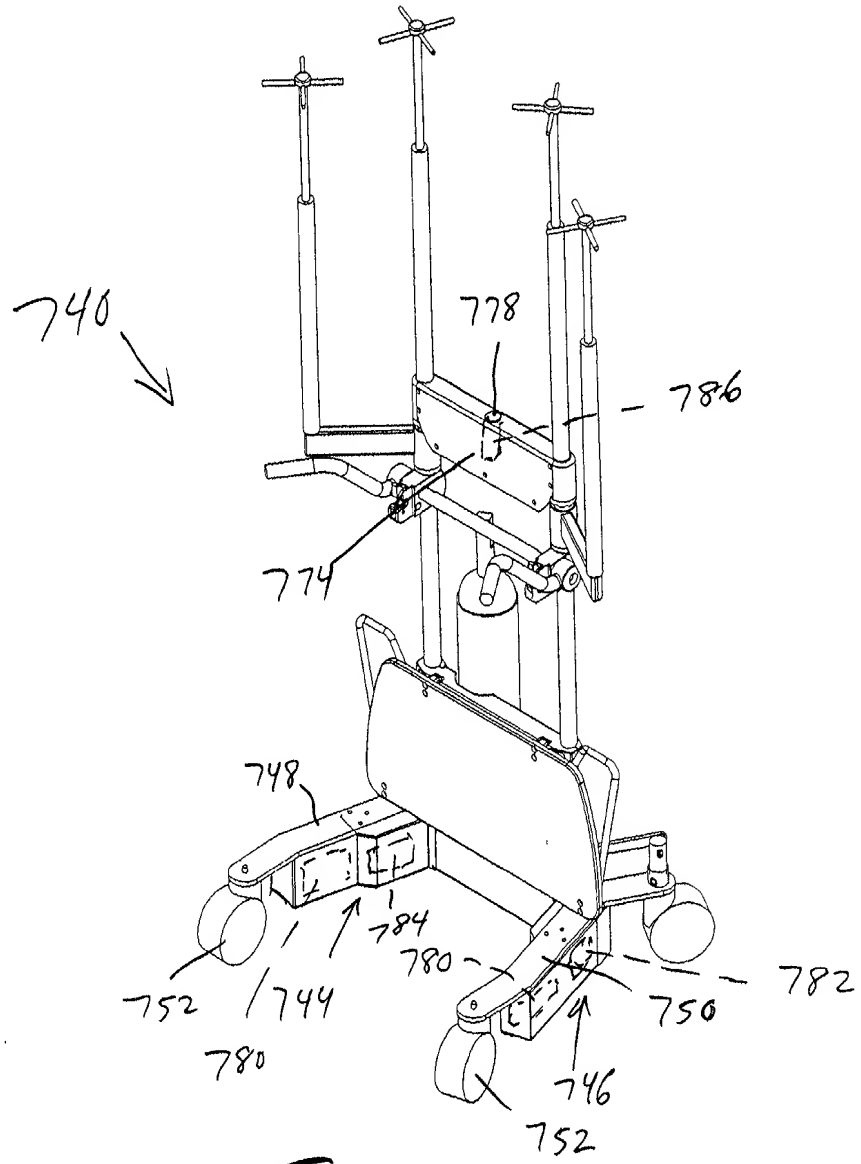


FIG. 50

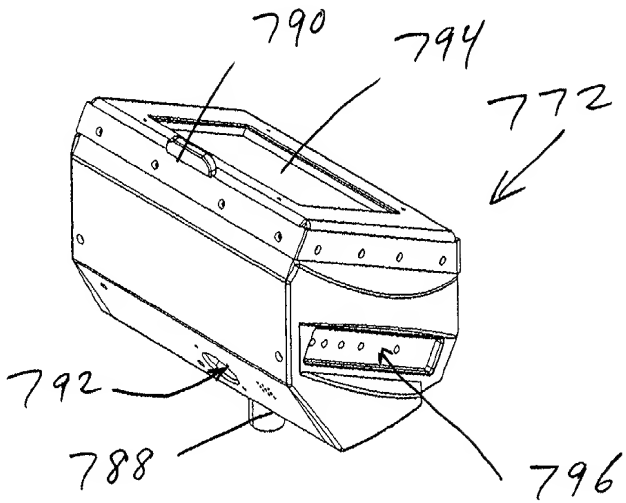


FIG. 51

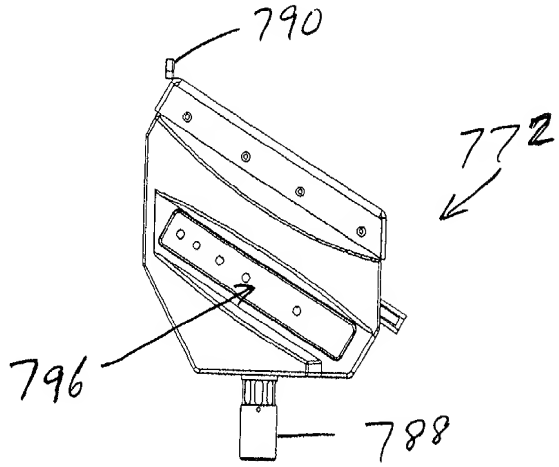
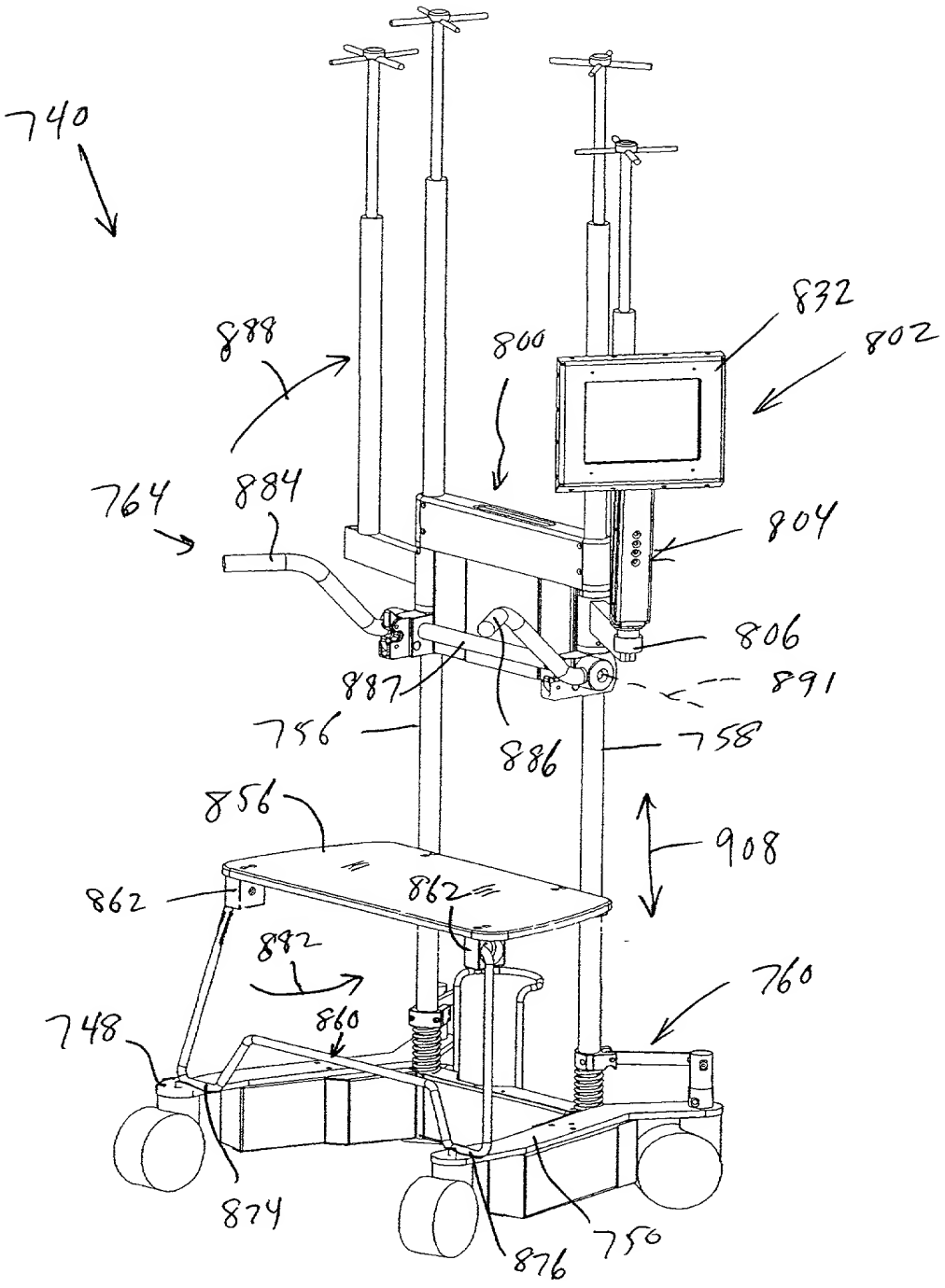


FIG. 52


740
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876
750

FIG. 53

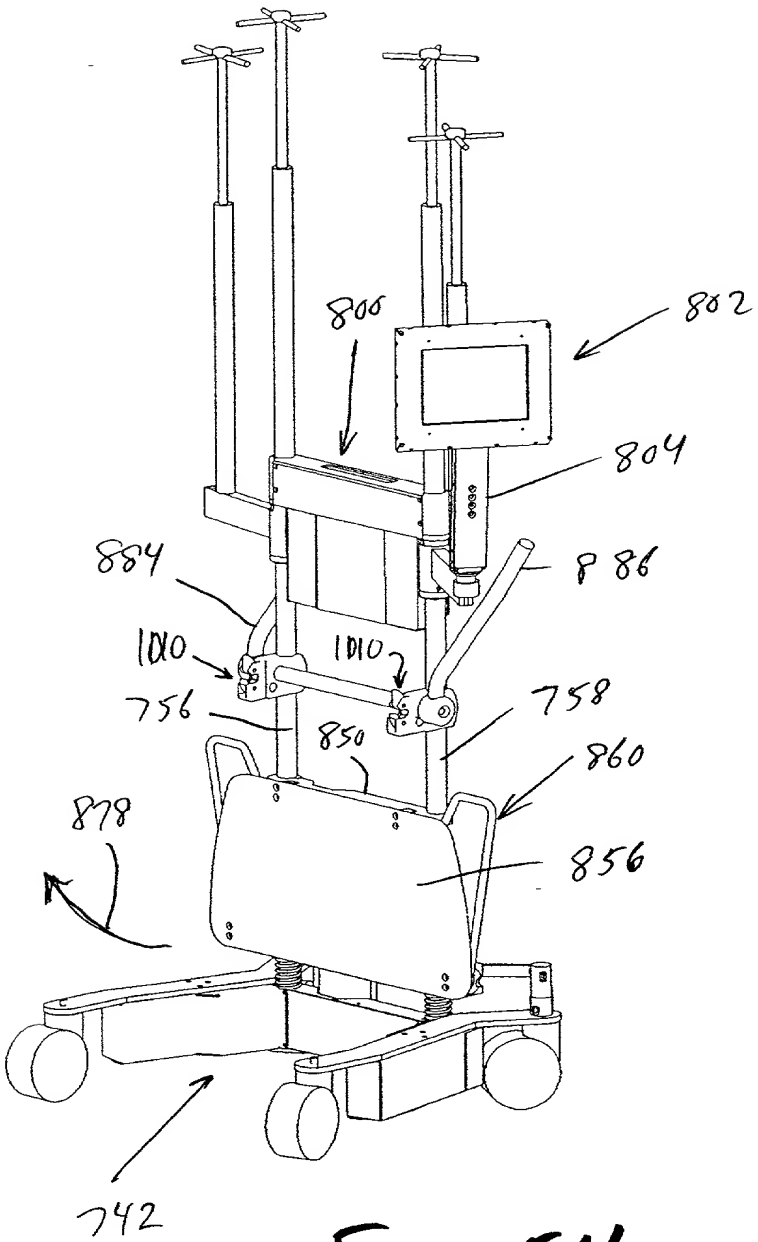


FIG. 54

TOHOSO 0356+360

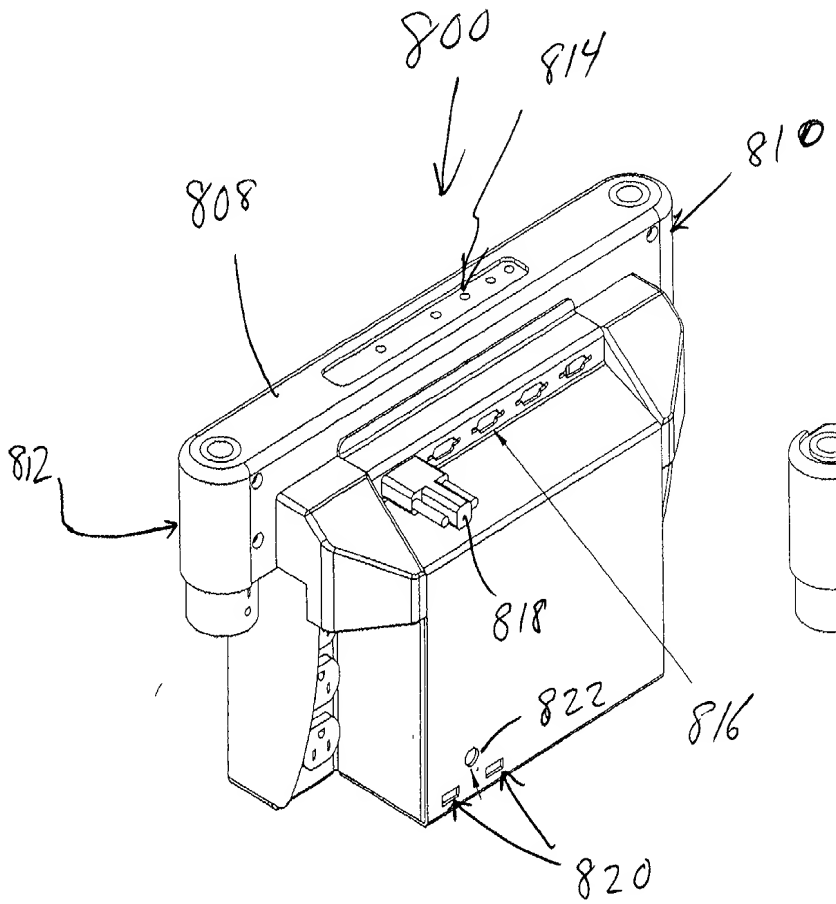


FIG. 55

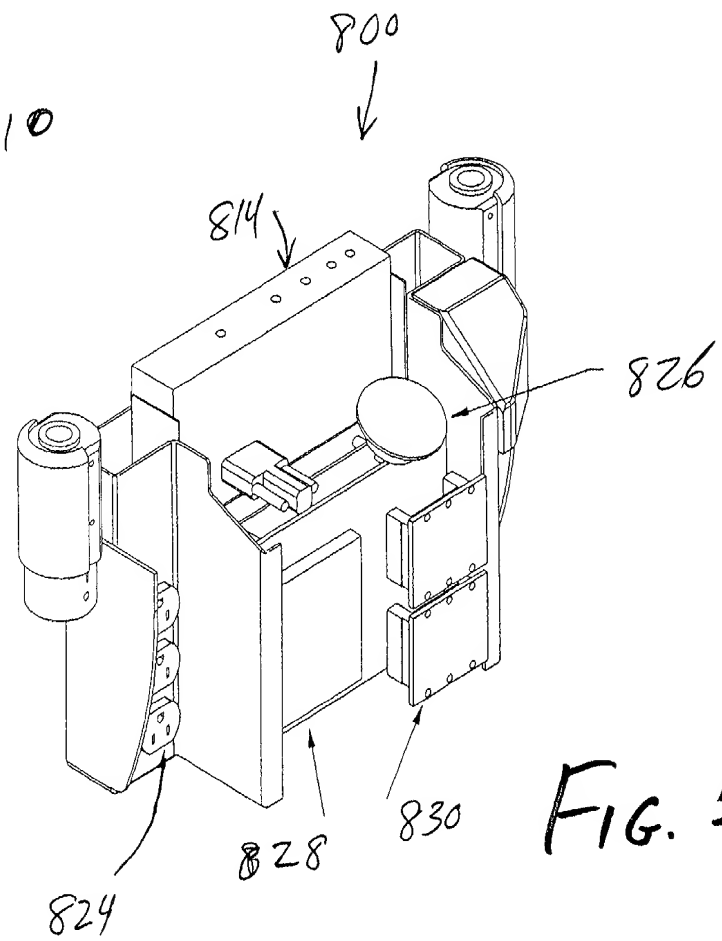


FIG. 56

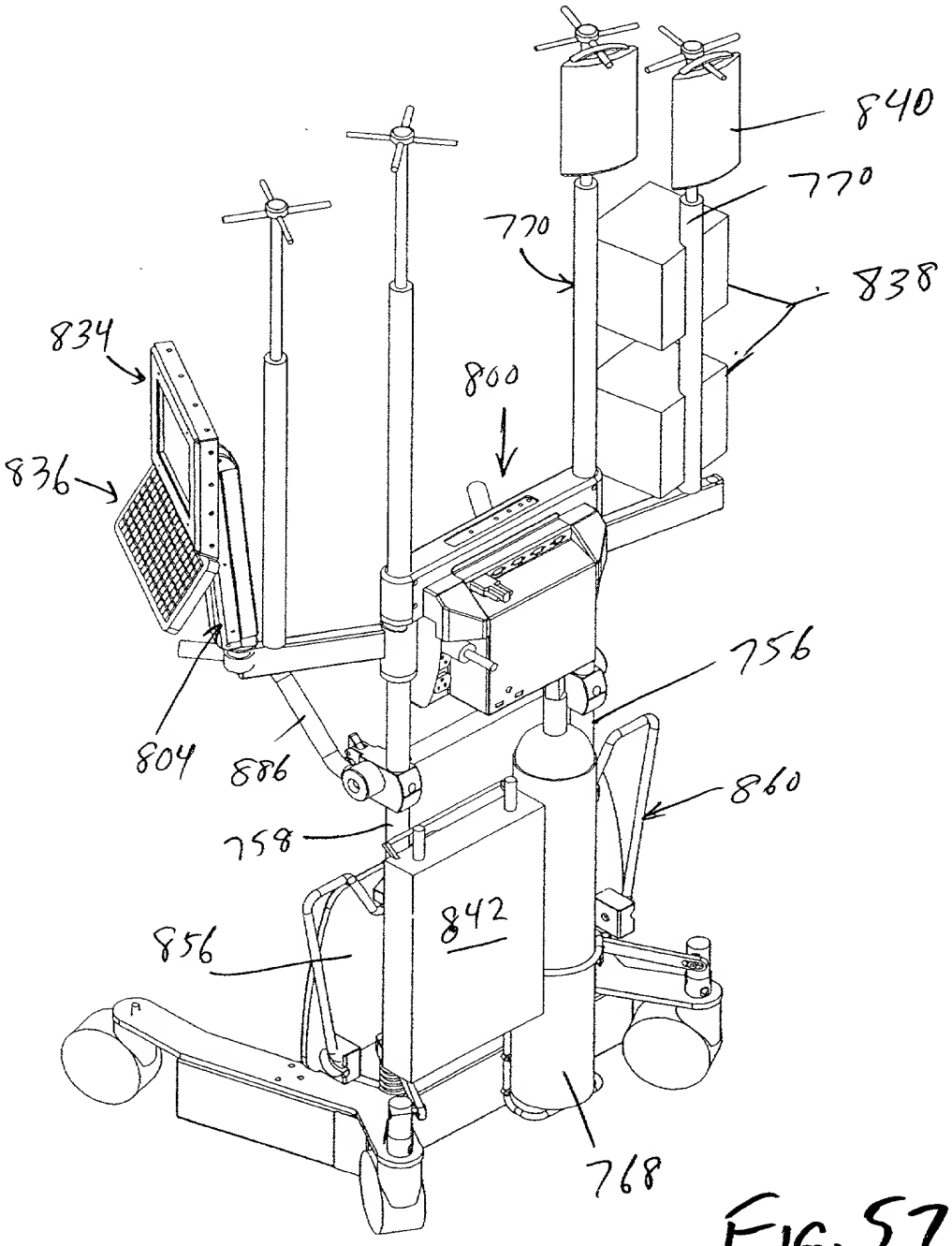


FIG. 57

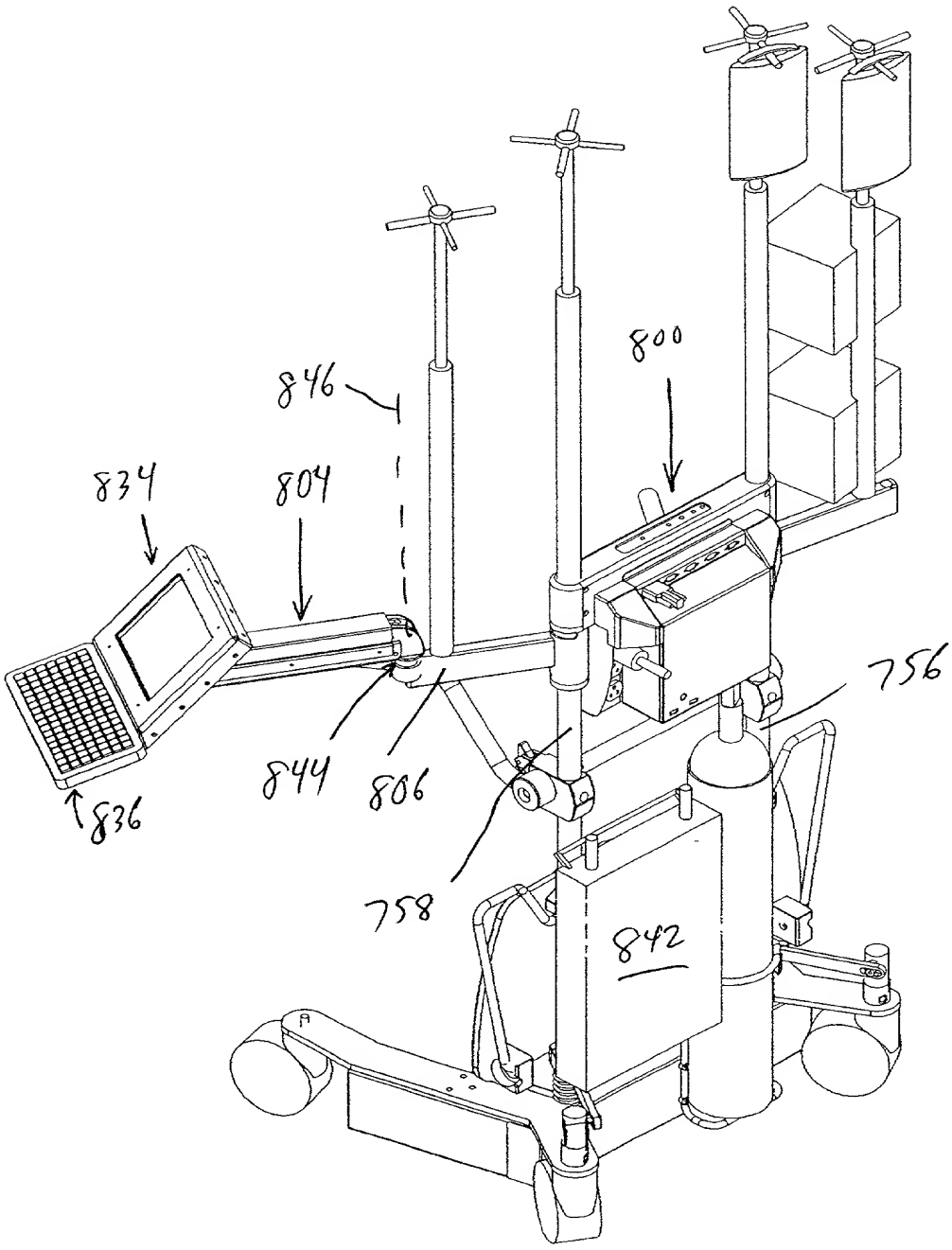
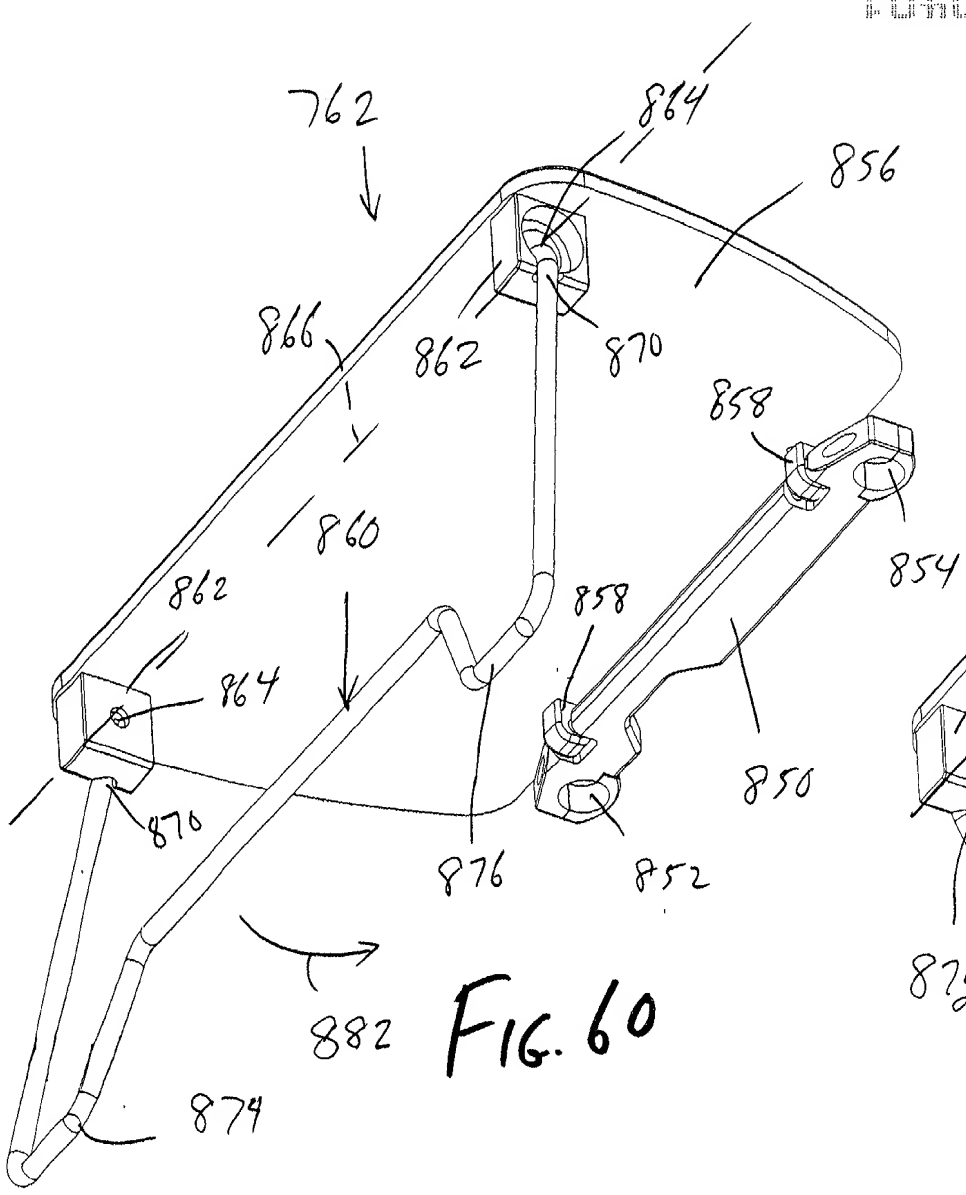


FIG. 5B


762
864
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864
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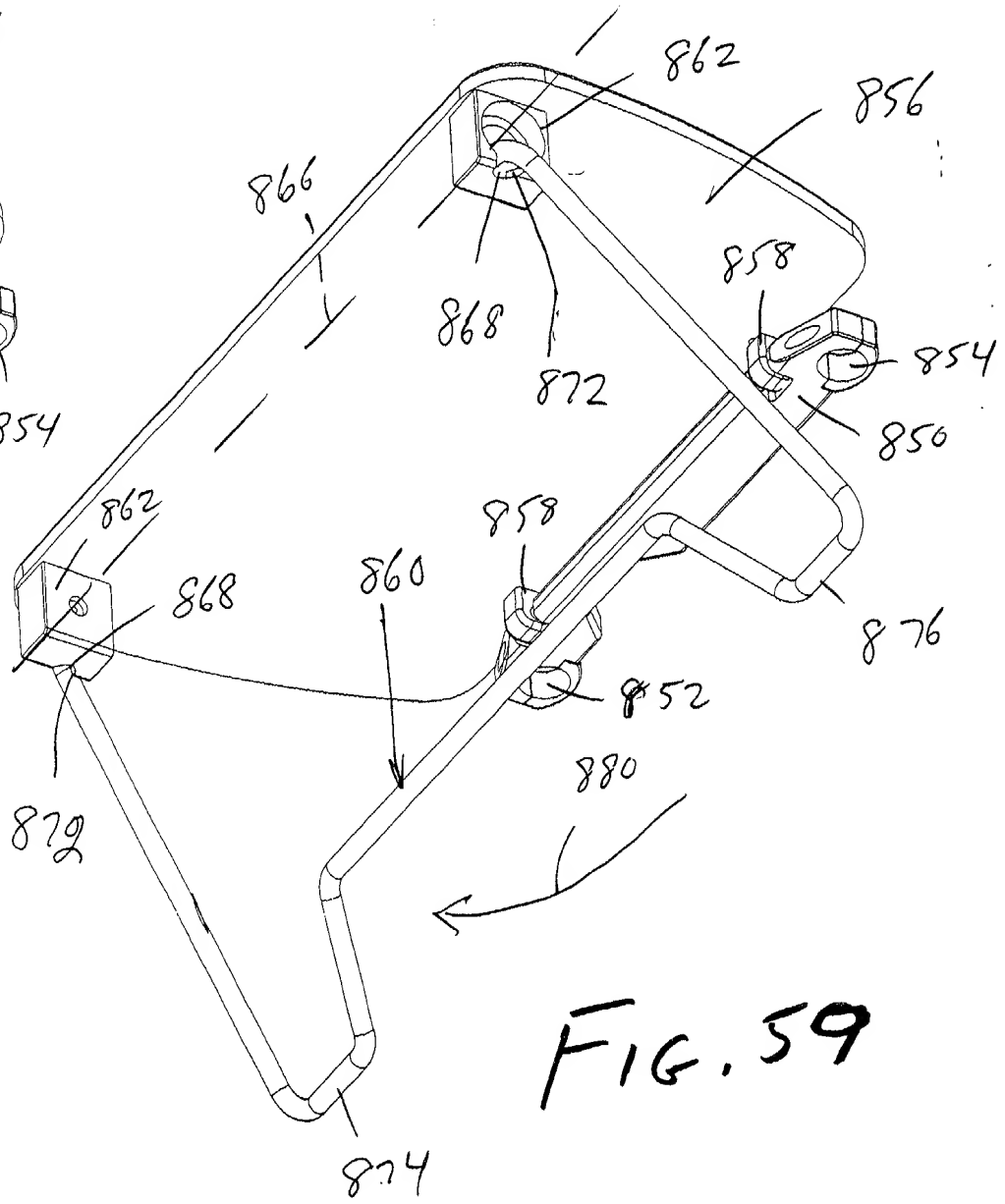
876
852
882
874

FIG. 60


862
856
866
868
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872
854
850
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852
880
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874

FIG. 59

TG1030 D856n860

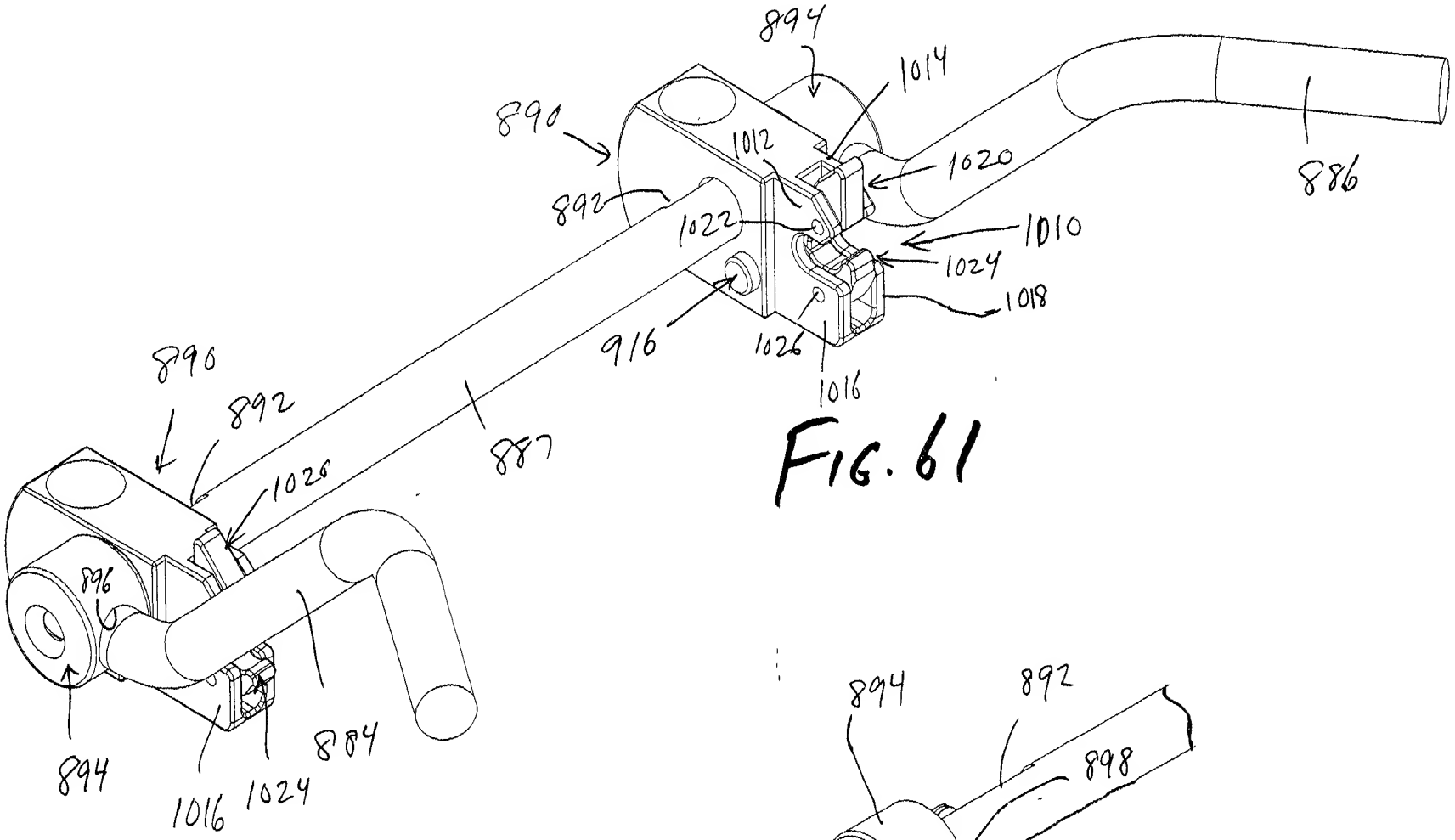


FIG. 61

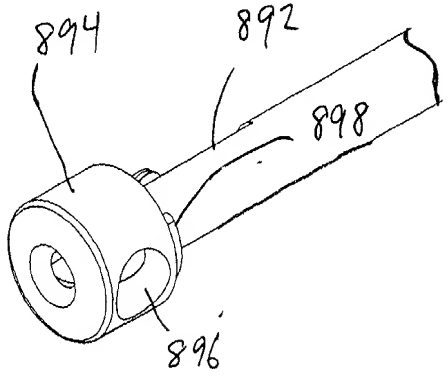
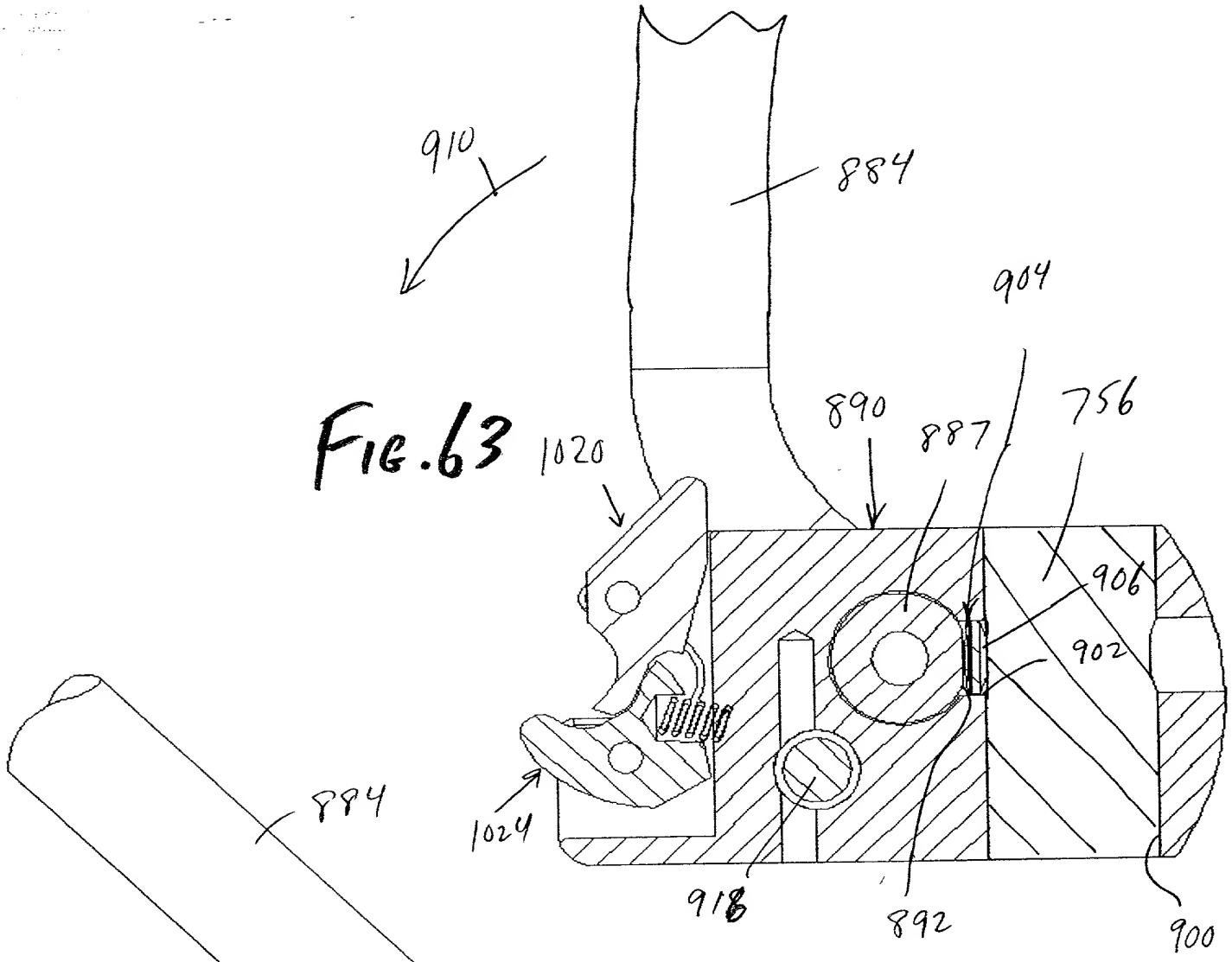


FIG. 62


910
884
904
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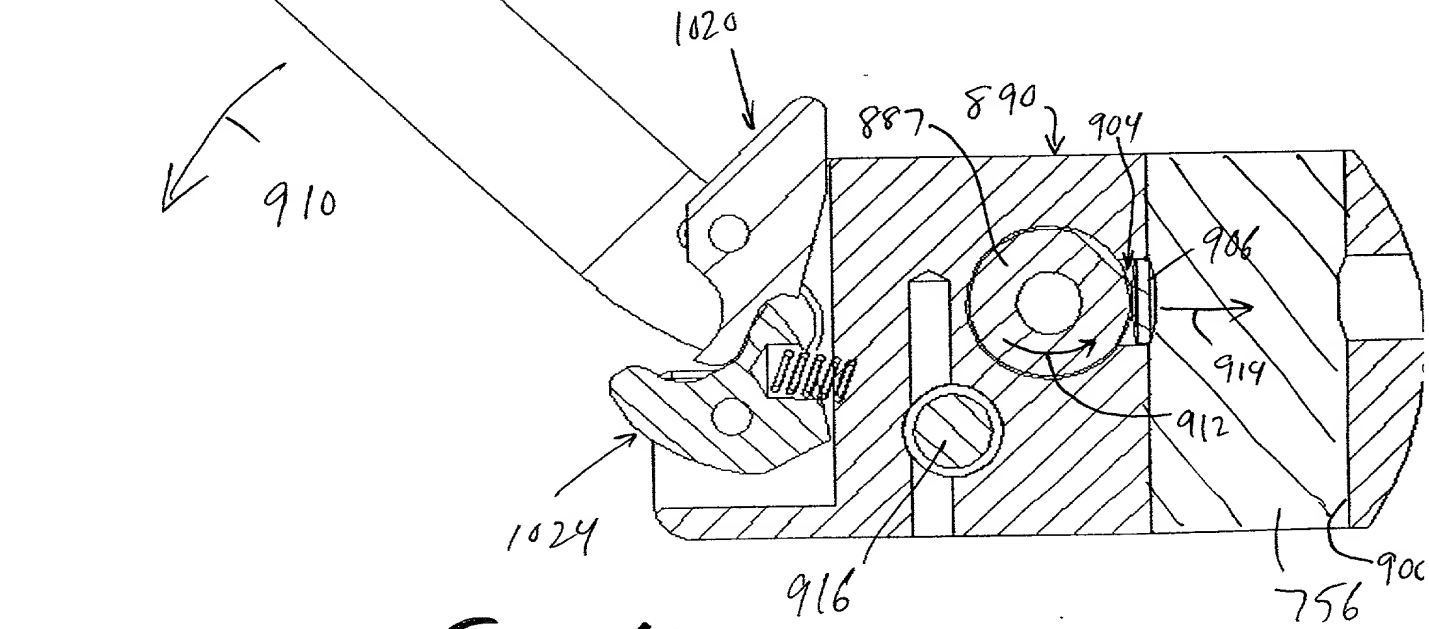
756
1020
906
902
1024
884
918
892
900

FIG. 63


1020
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1024
916
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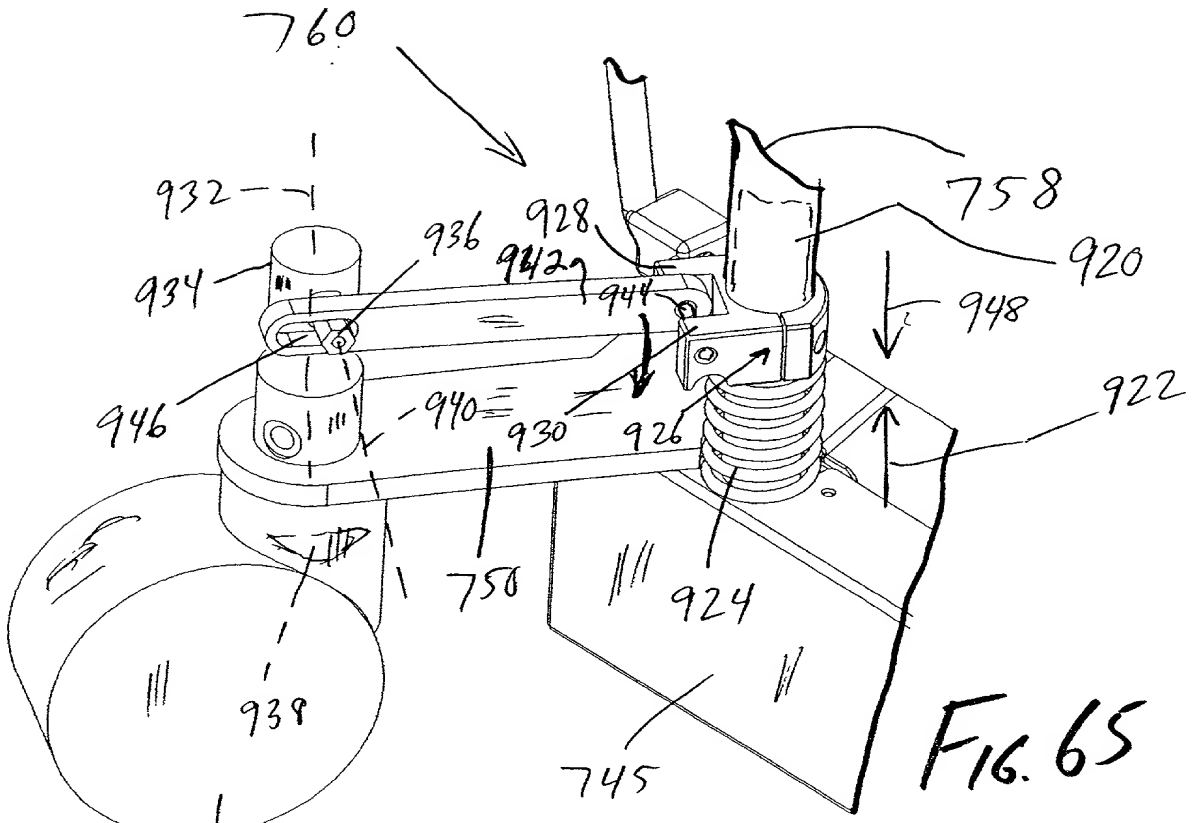
900

FIG. 64


760
932
934
936
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924
939
745

FIG. 65

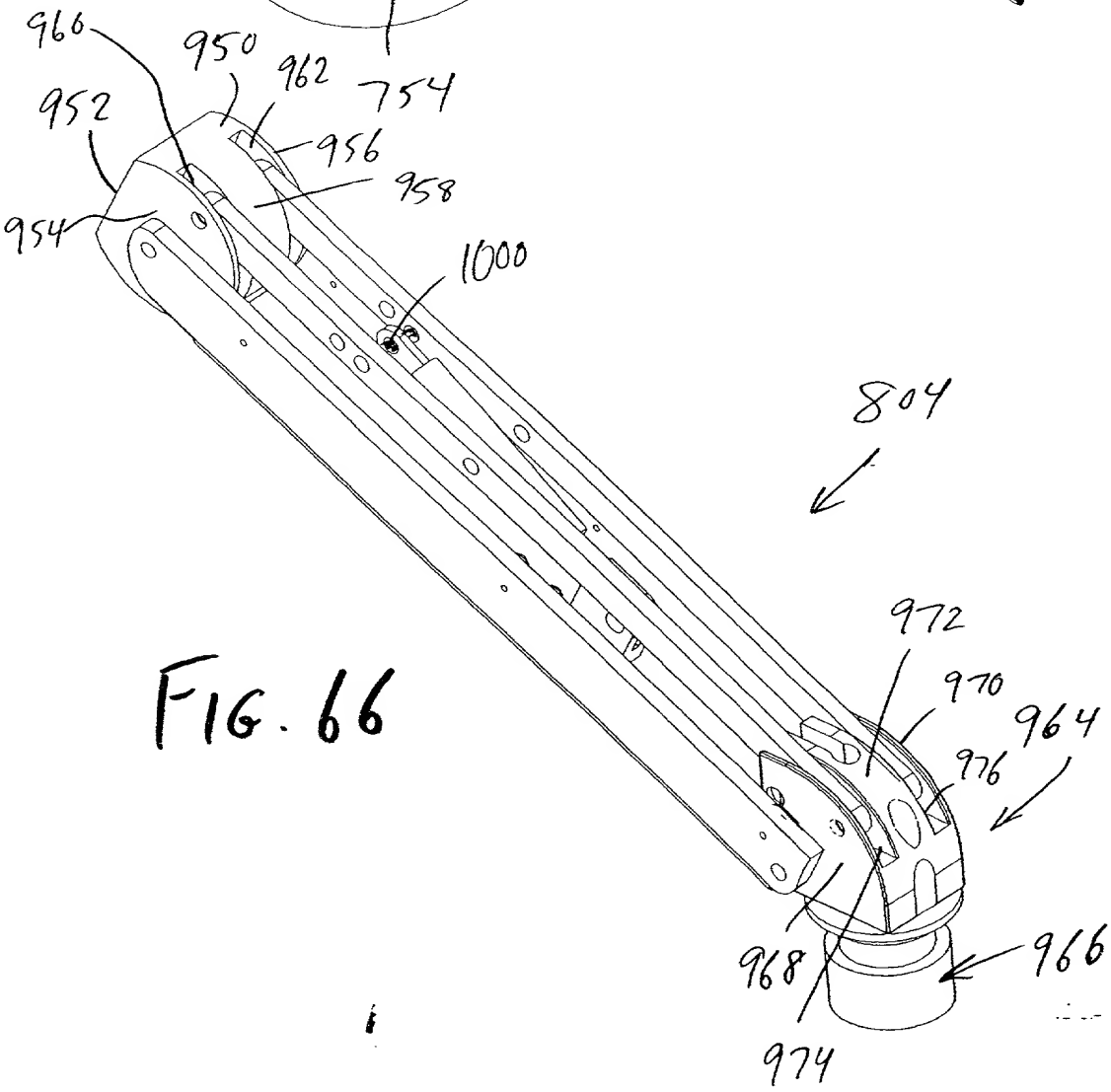
966
950
962
754
952
956
958
954
1000
804
972
970
964
976
968
966
974

FIG. 66

Patent Application Publication

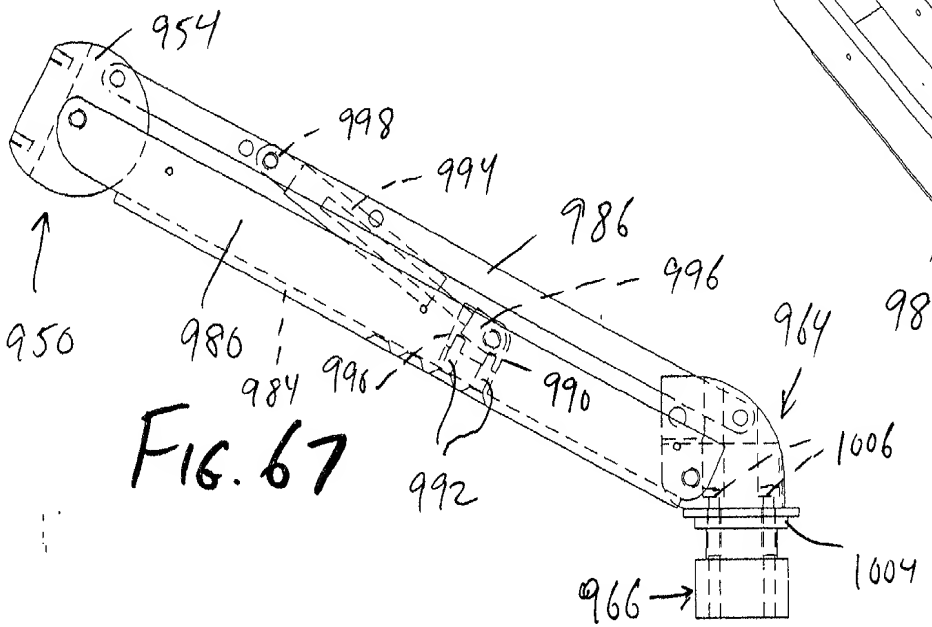

FIG. 67

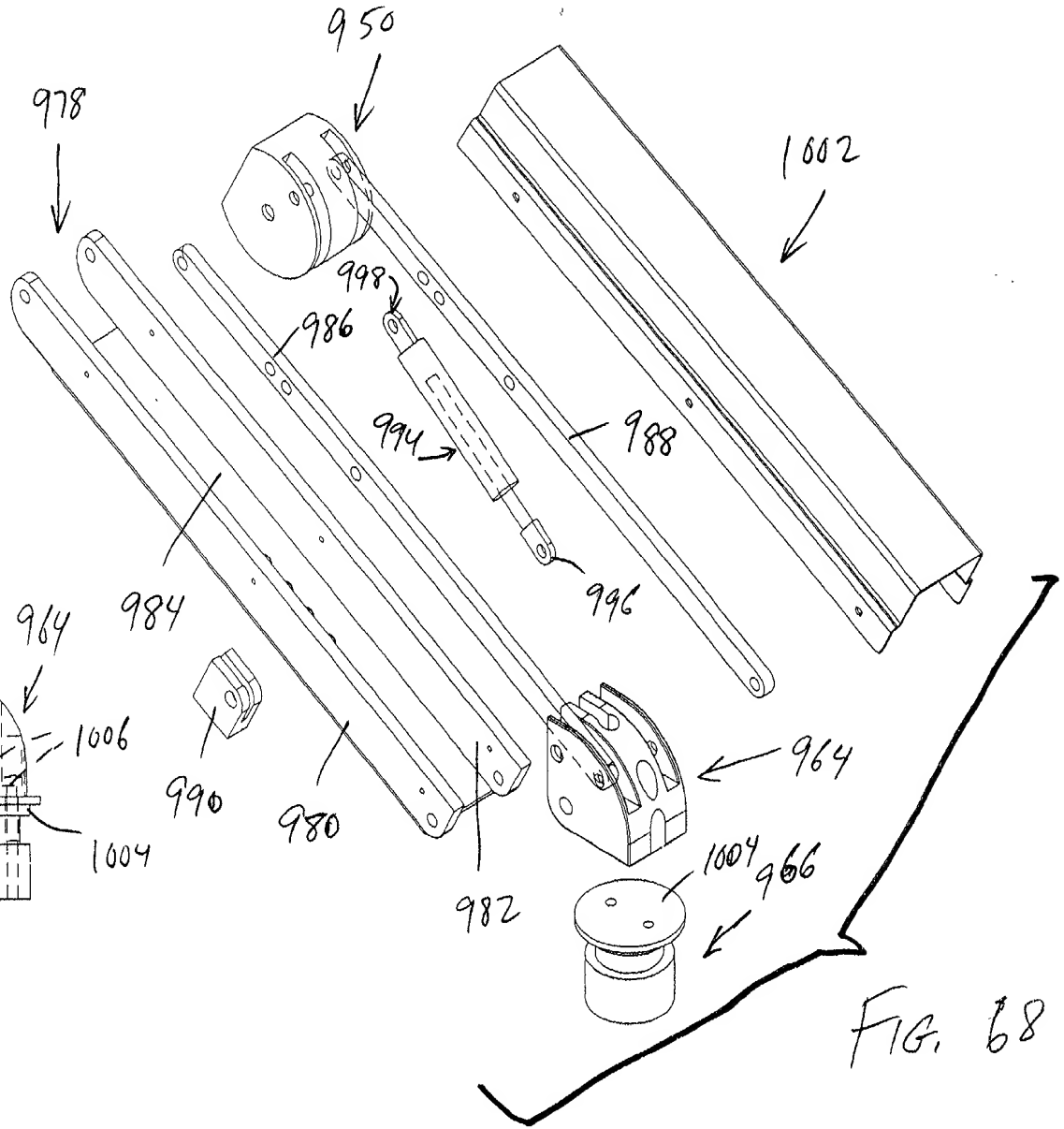

FIG. 68

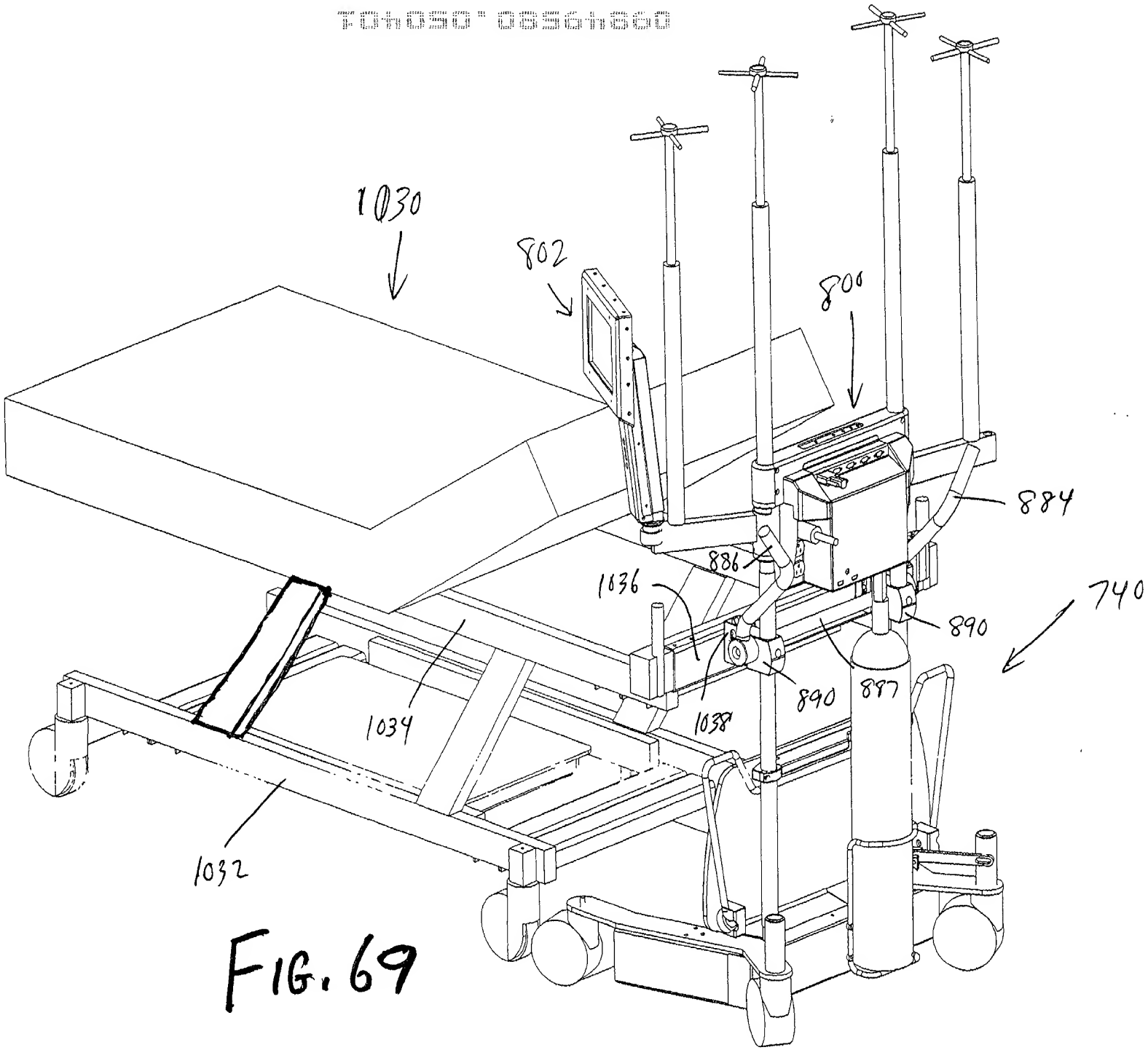

FIG. 69

FGH090 08566860

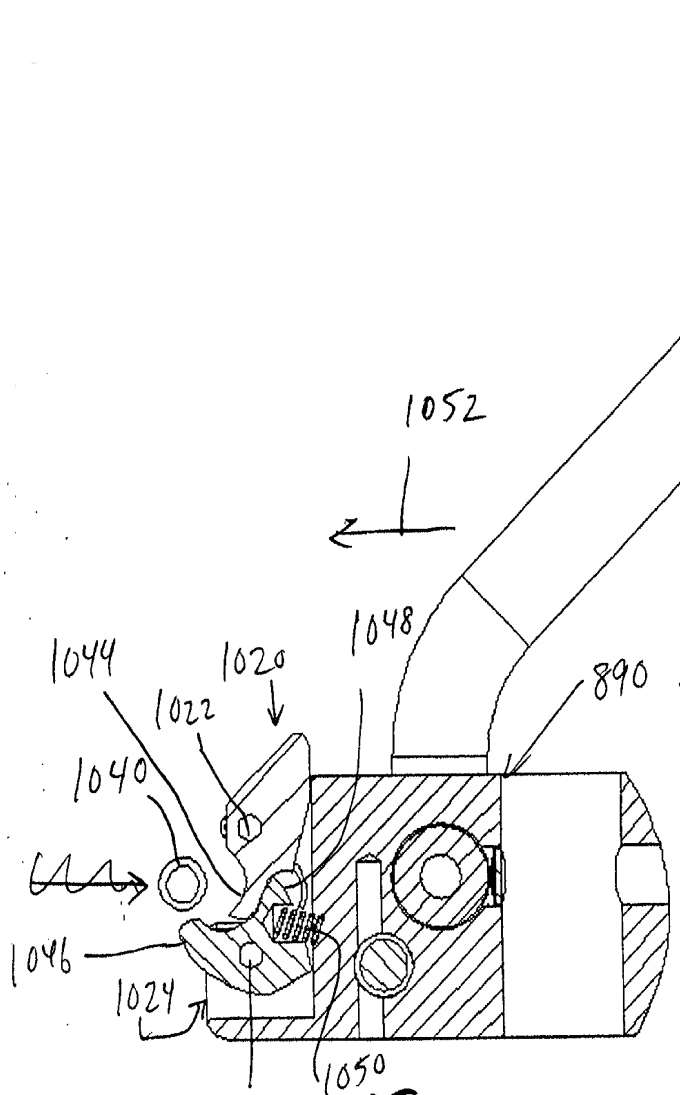

FIG. 70

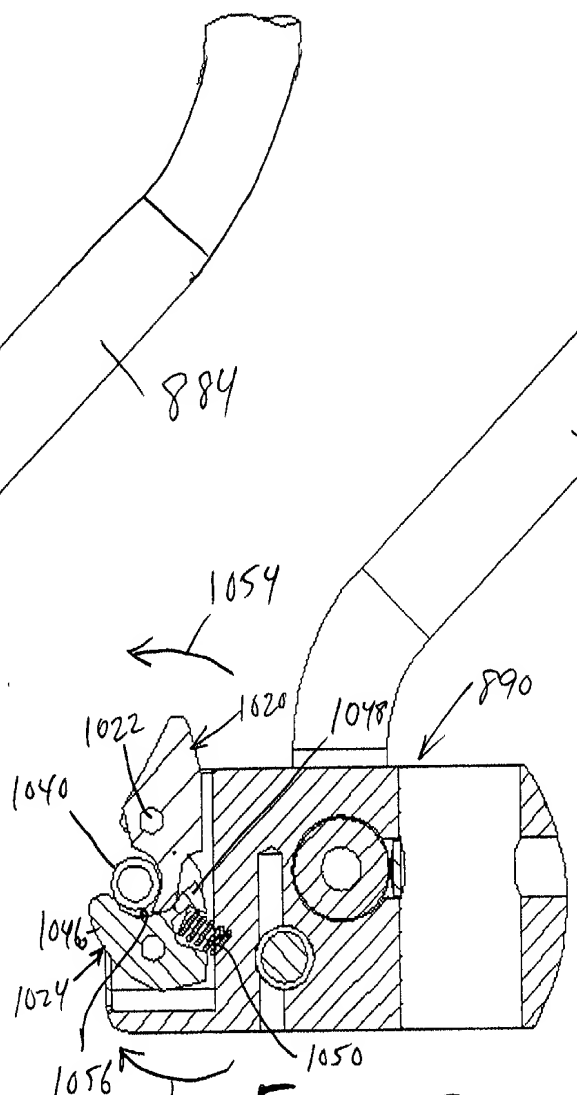

FIG. 71

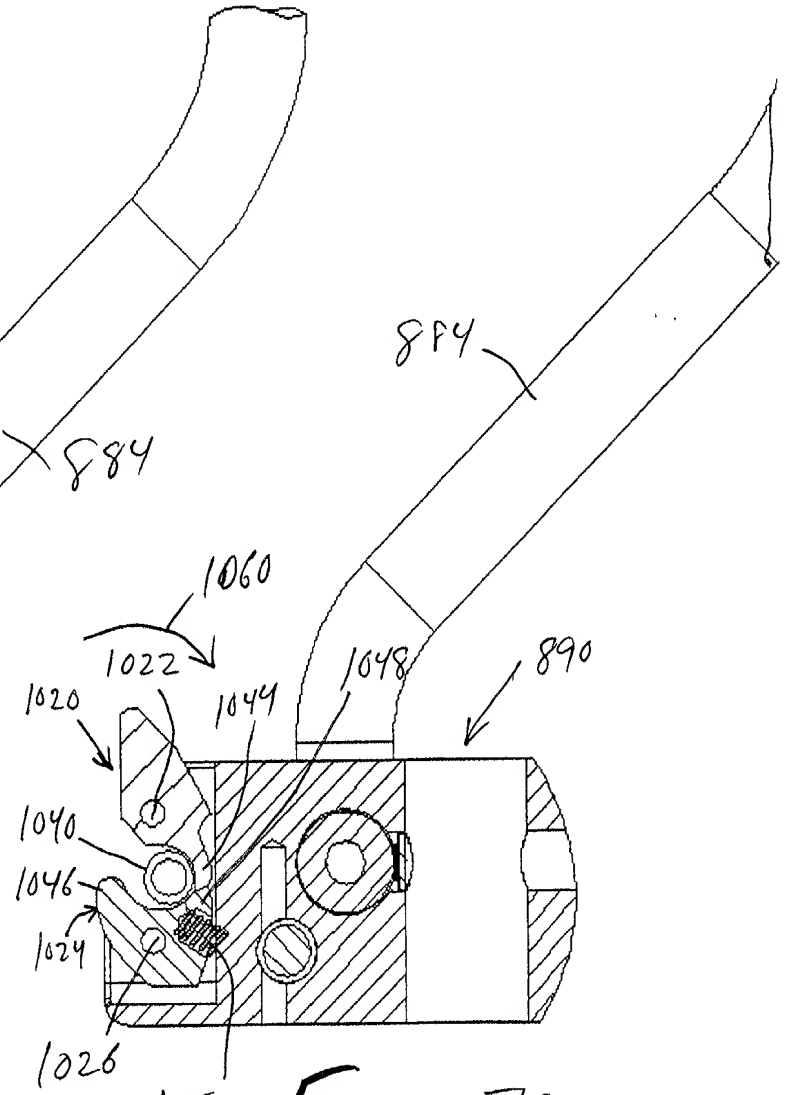

FIG. 72

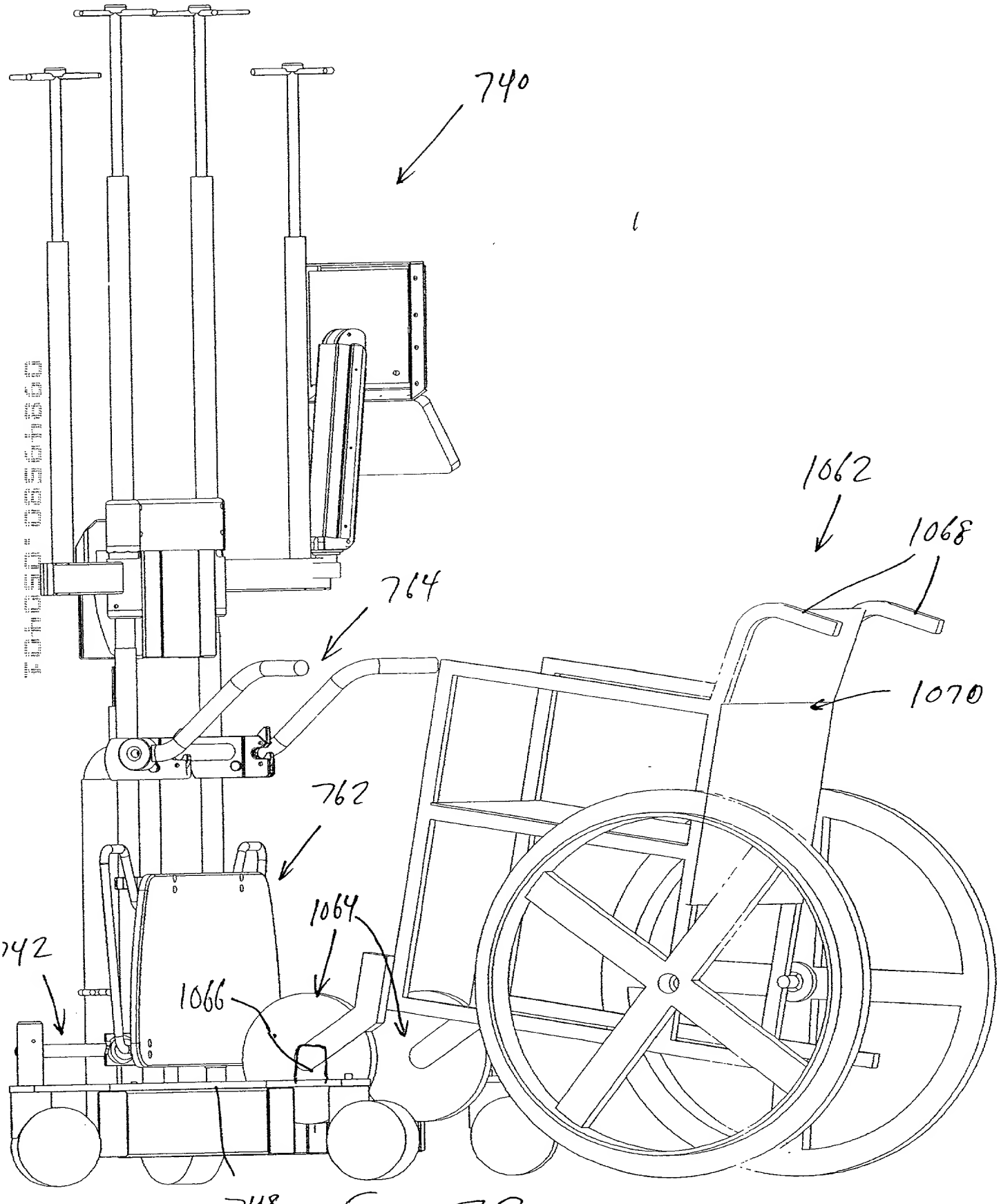

FIG. 73

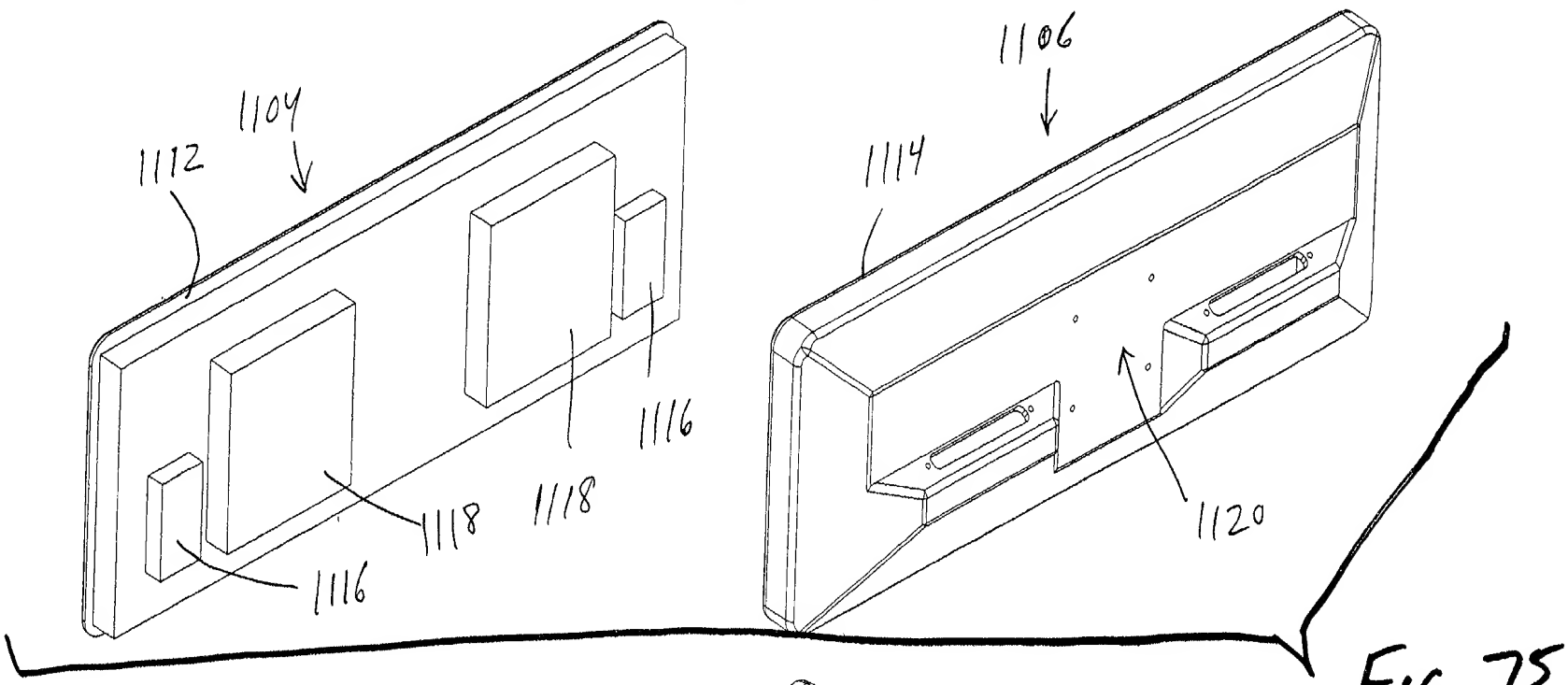

FIG. 75

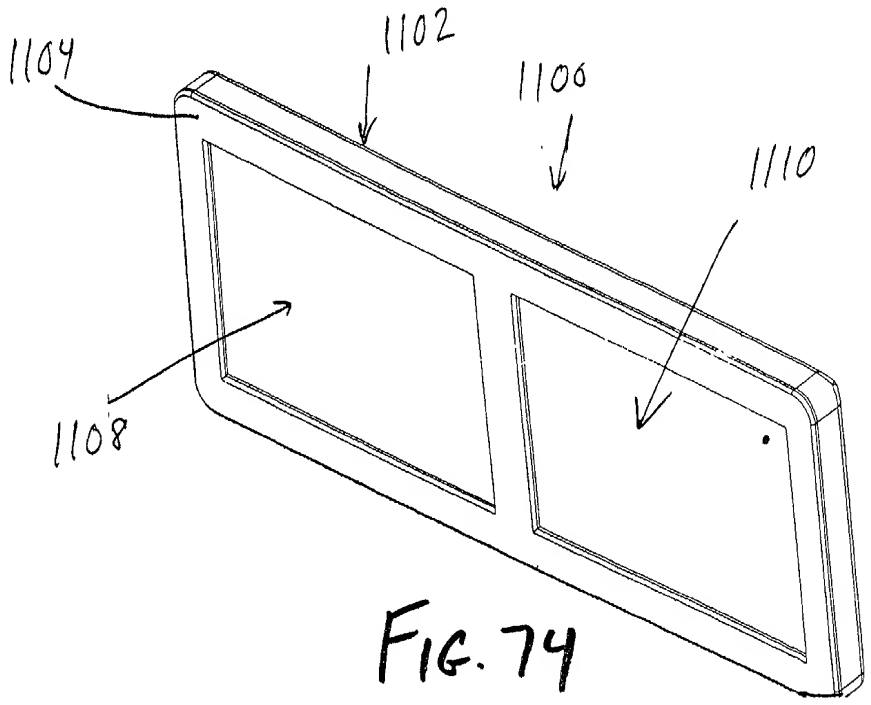

FIG. 74

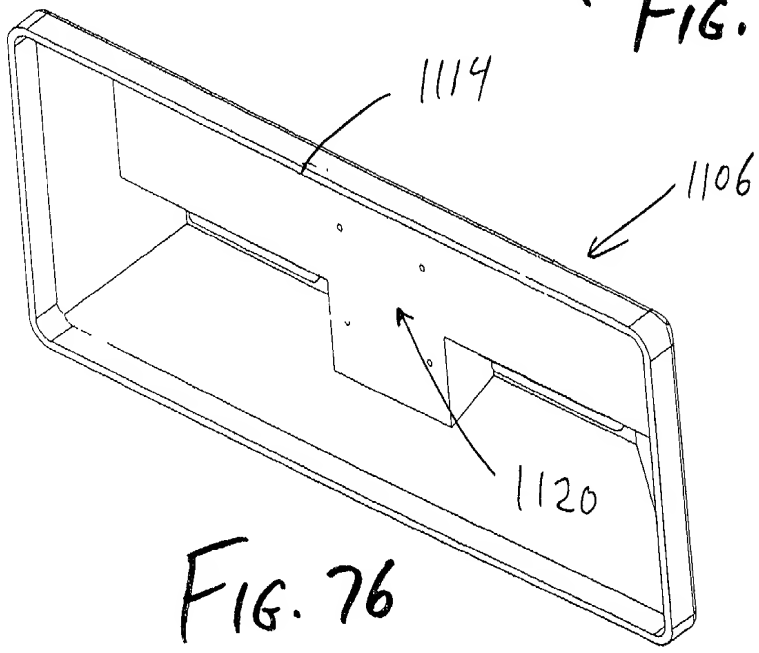

FIG. 76

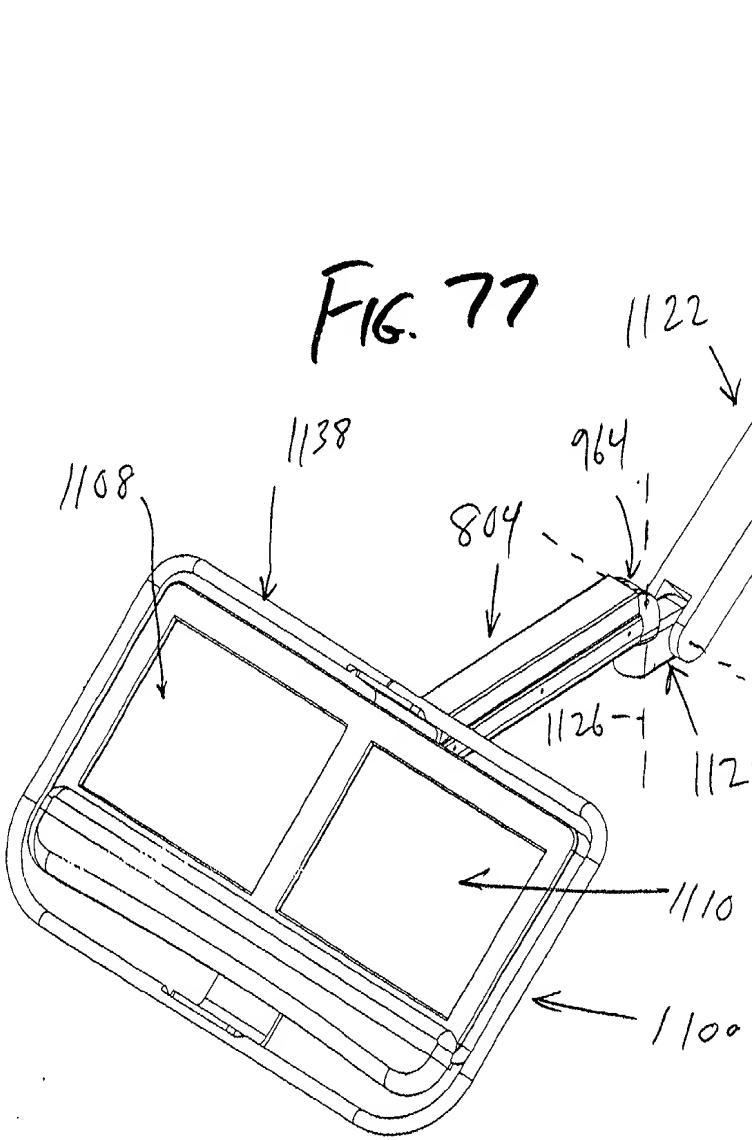
1130
1134
1122
1132
1138
964
1108
804
1128
1126-1
1124
1110
1100

FIG. 77

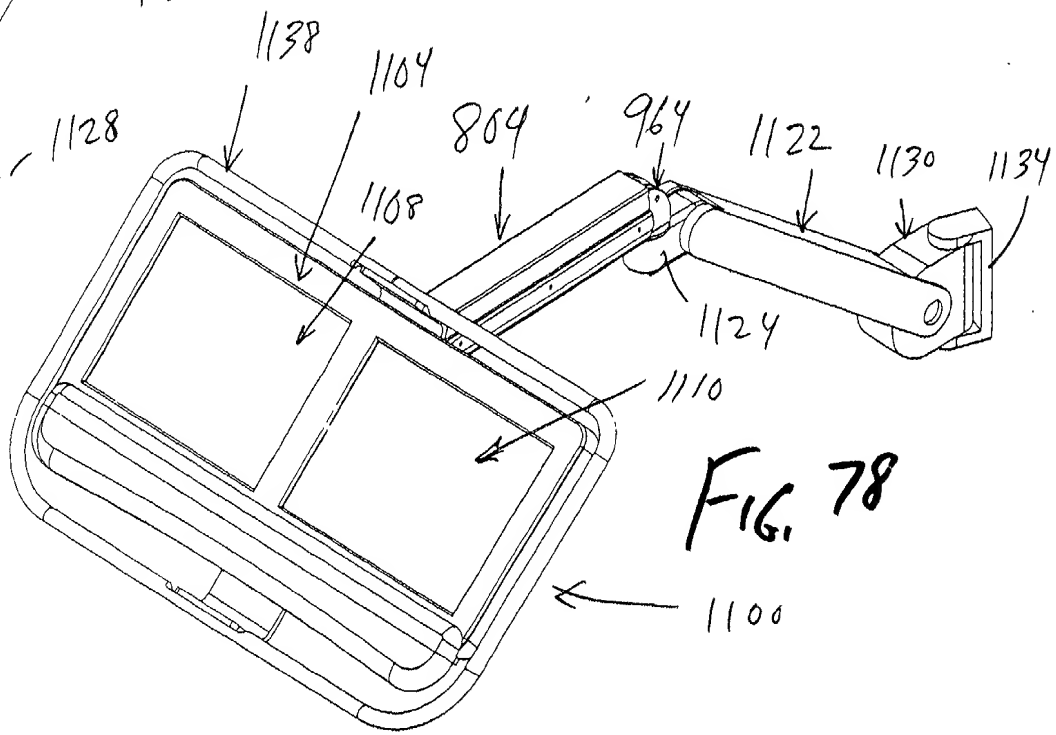
1138
1104
804
964
1122
1130
1134
1108
1124
1110
1100

FIG. 78

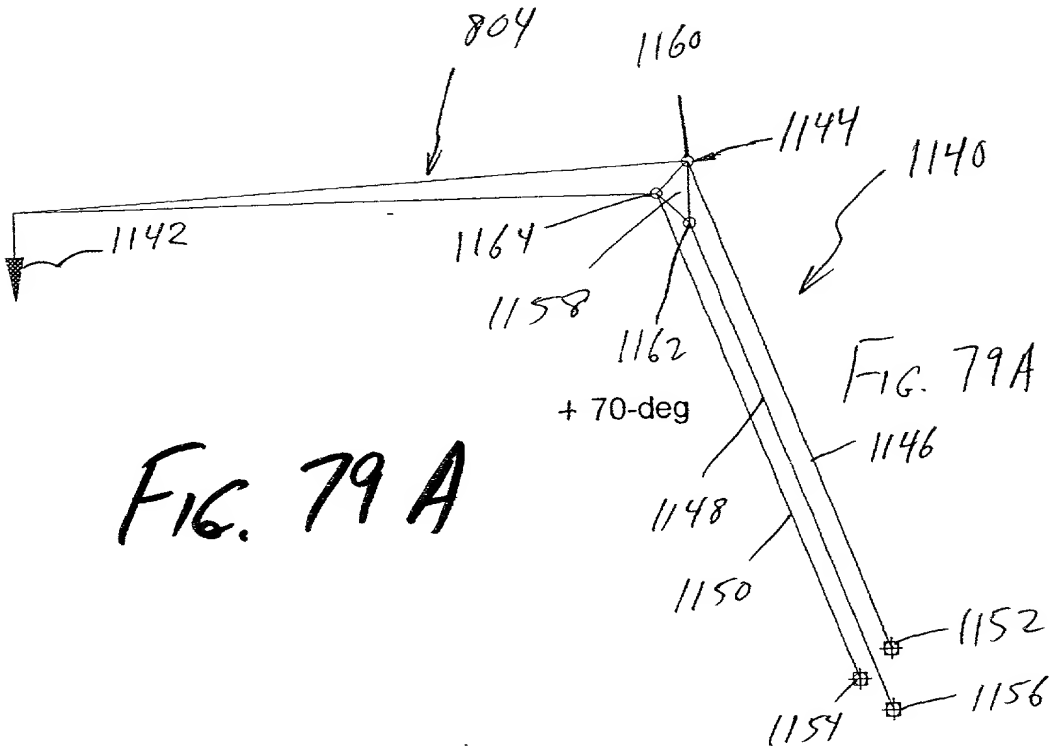

FIG. 79A

FIG. 79A

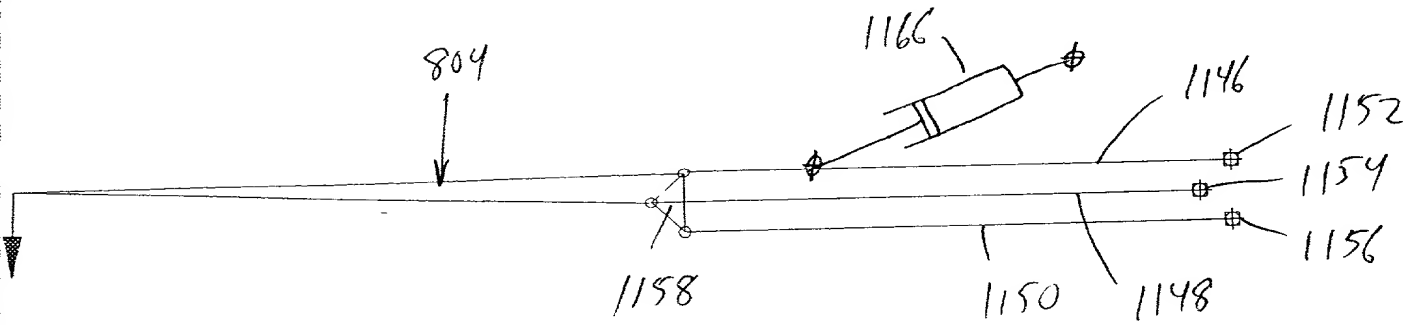

FIG. 79B

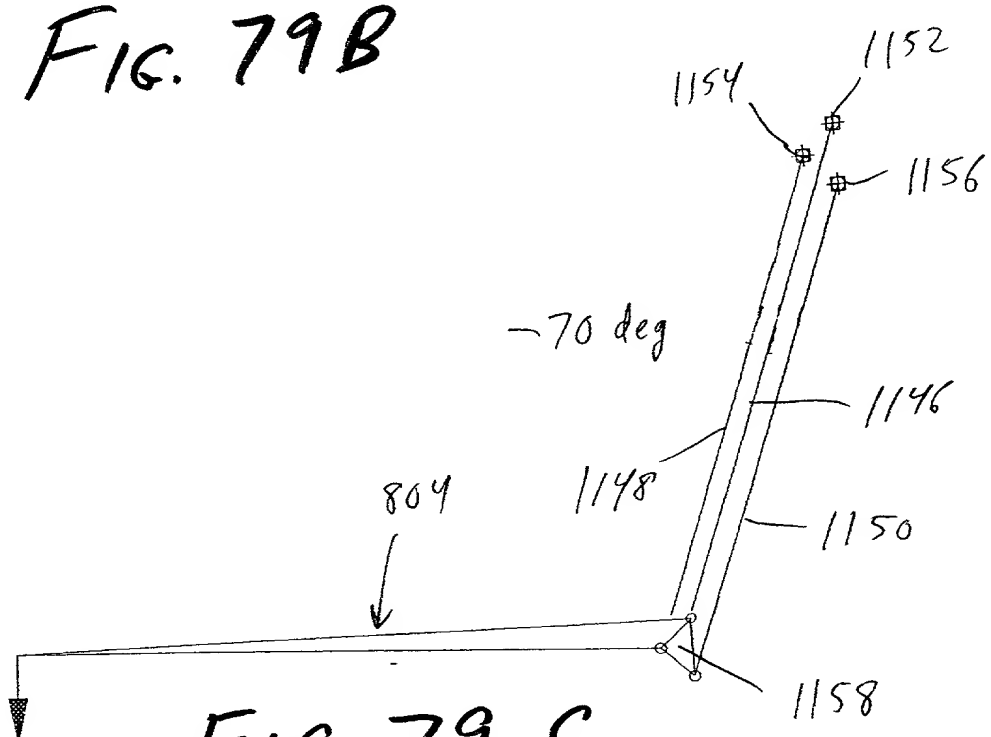

FIG. 79C

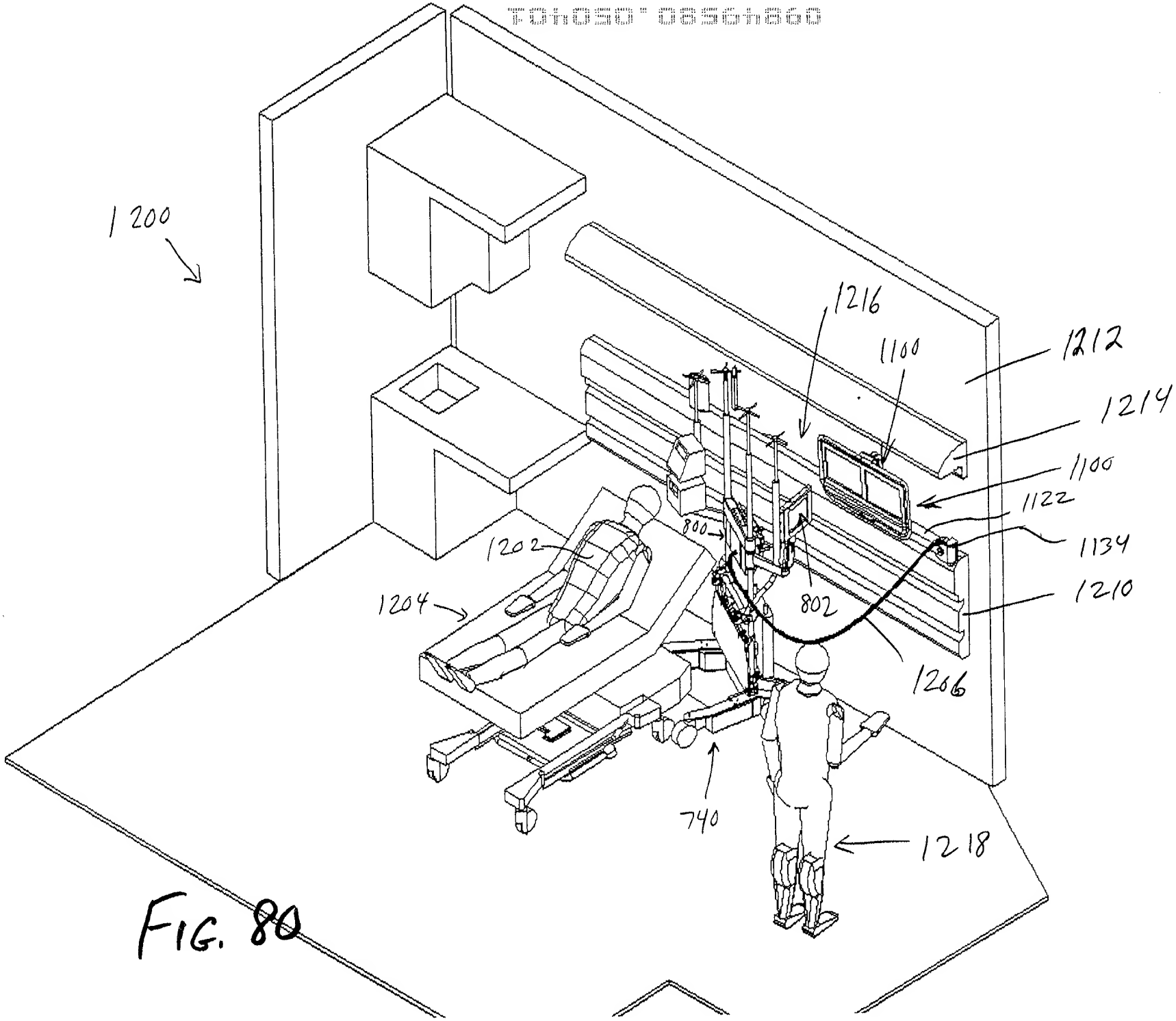
1200
1216
1100
1212
1214
1100
1122
1134
1210
800
1202
1204
802
1206
740
1218

FIG. 80

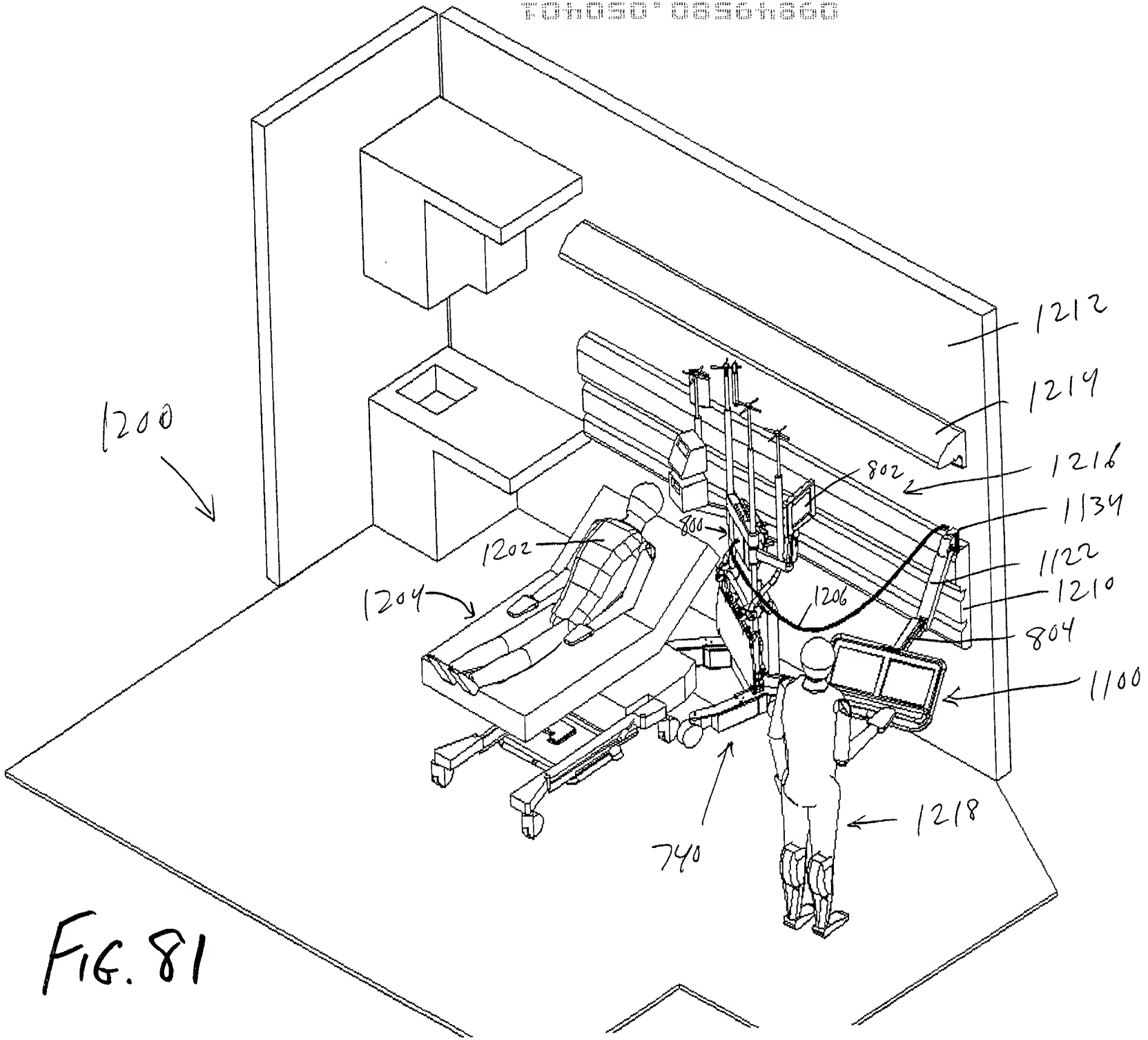
1200
1212
1214
1216
802
1134
800
1202
1122
1210
1204
1206
804
1100
1218
740

FIG. 81

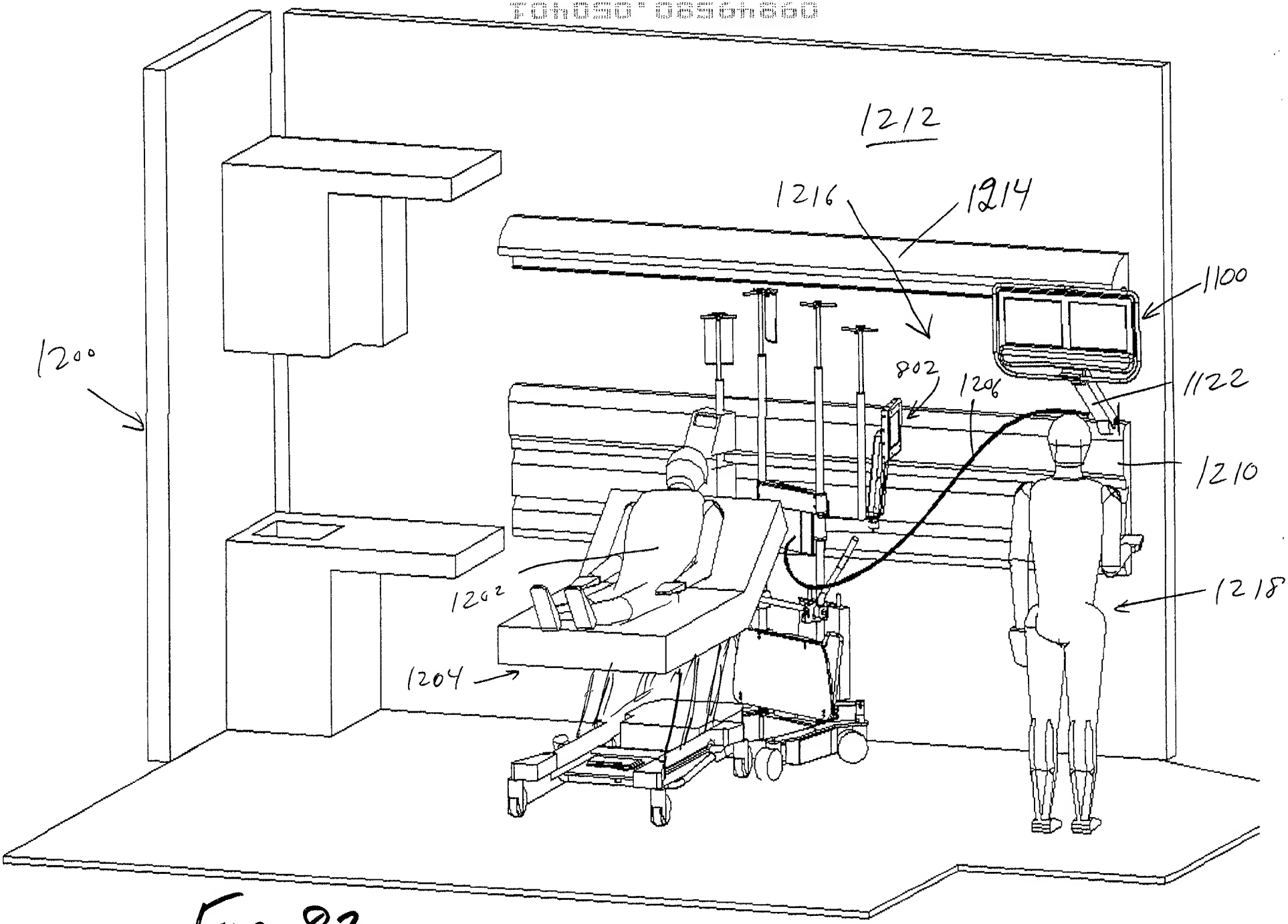

FIG. 82

TD1090 "Assigned"

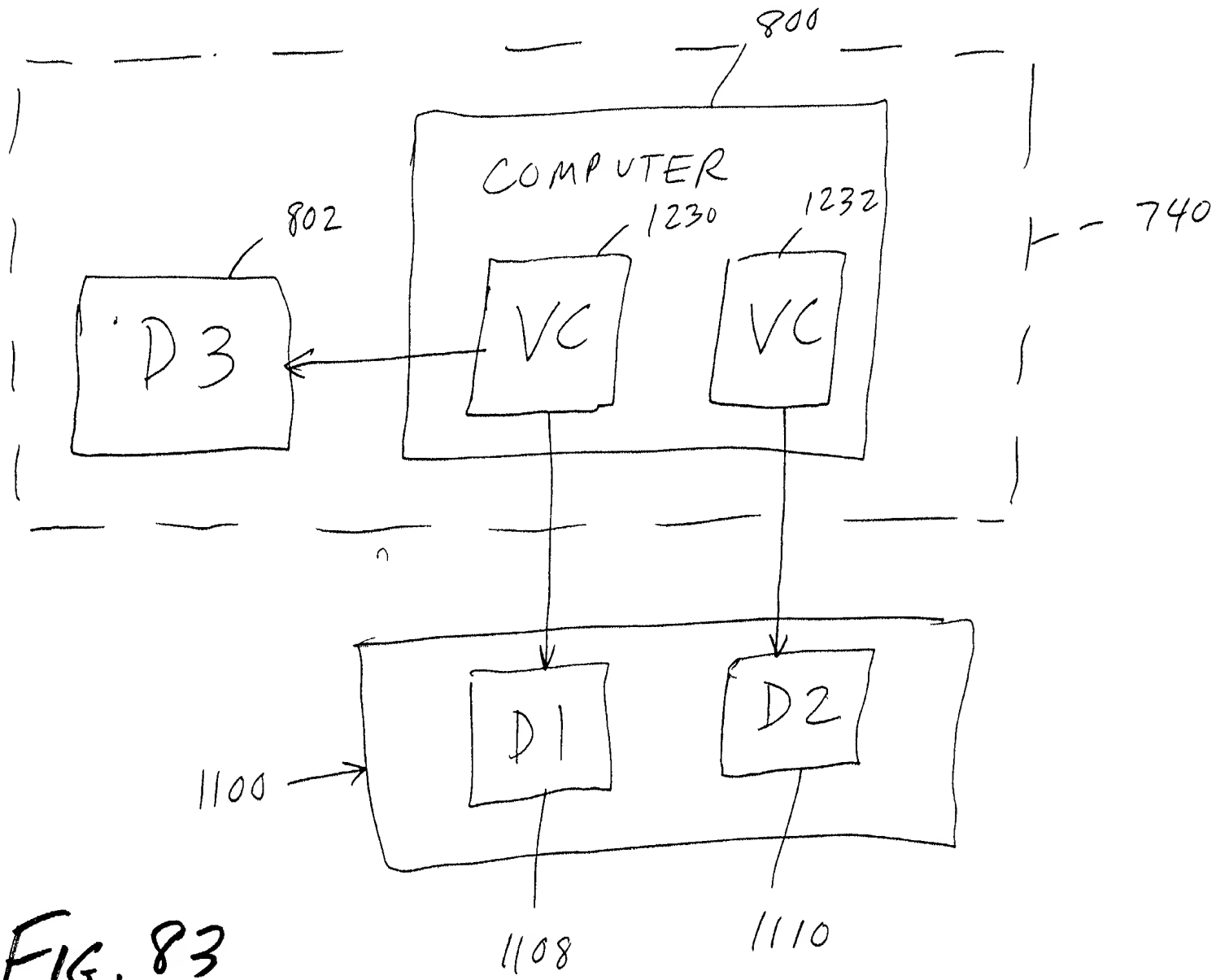

FIG. 83

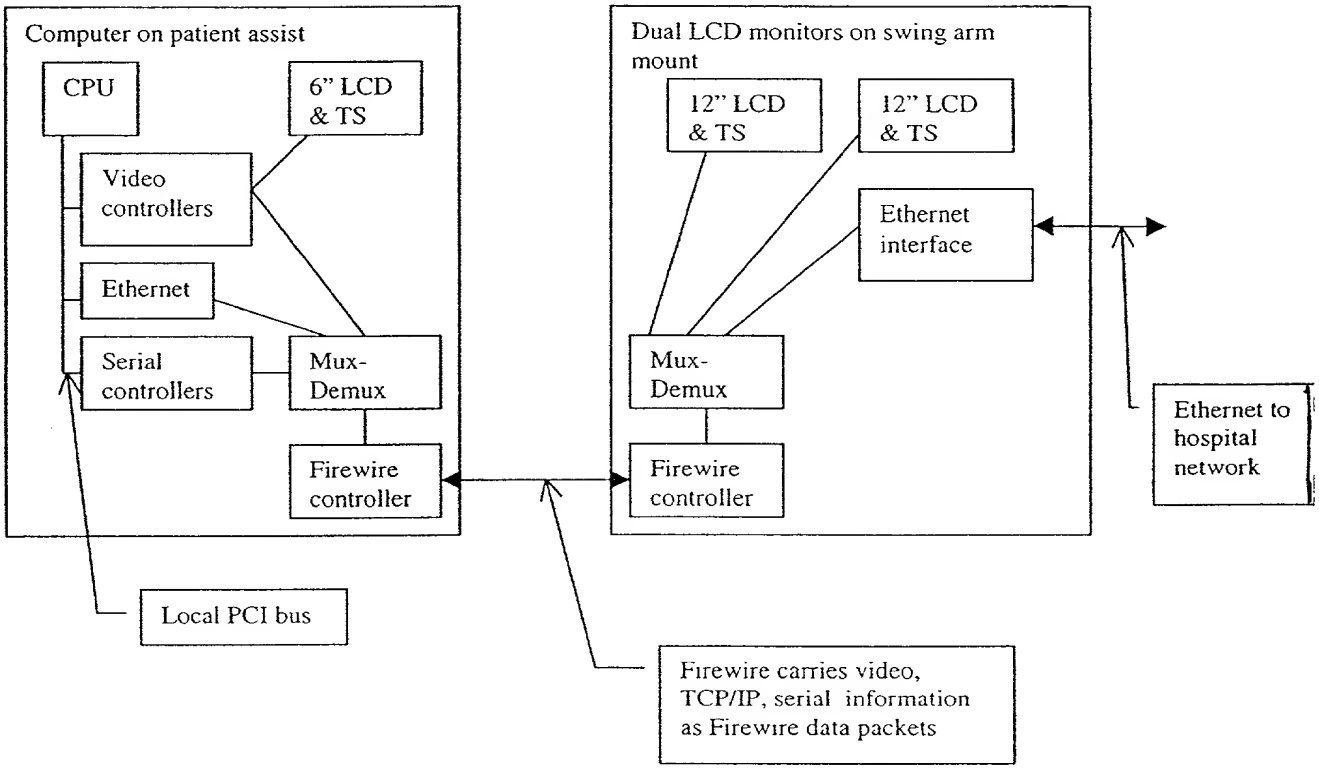
Computer on patient assist
CPU
6" LCD & TS
Video controllers
Ethernet
Serial controllers
Mux-Demux
Firewire controller
Local PCI bus
Dual LCD monitors on swing arm mount
12" LCD & TS
12" LCD & TS
Ethernet interface
Mux-Demux
Firewire controller
Ethernet to hospital network
Firewire carries video, TCP/IP, serial information as Firewire data packets

FIG. 84

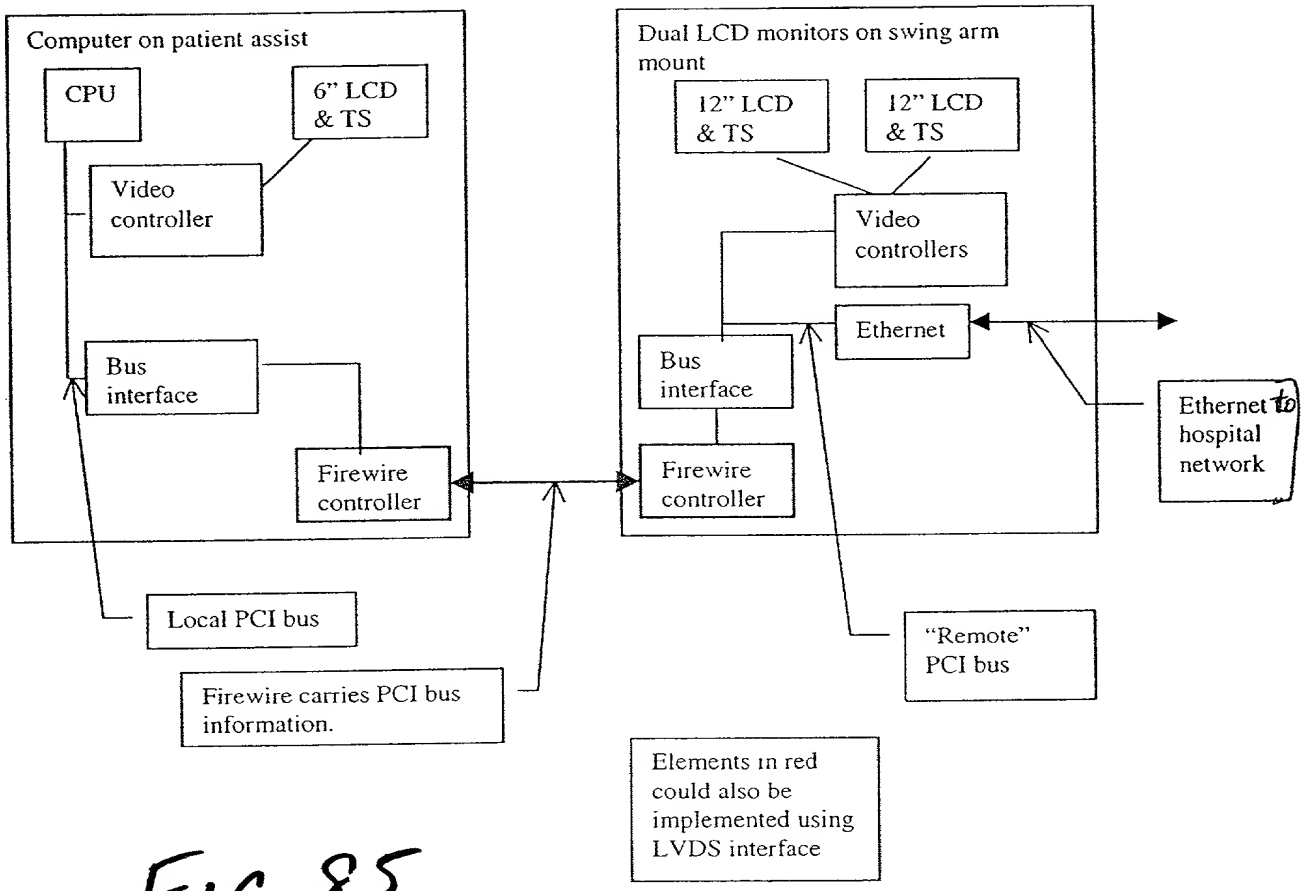
Computer on patient assist
CPU
6" LCD & TS
Video controller
Bus interface
Firewire controller
Local PCI bus
Firewire carries PCI bus information.
Dual LCD monitors on swing arm mount
12" LCD & TS
12" LCD & TS
Video controllers
Ethernet
Bus interface
Firewire controller
Ethernet to hospital network
"Remote" PCI bus
Elements in red could also be implemented using LVDS interface

FIG. 85

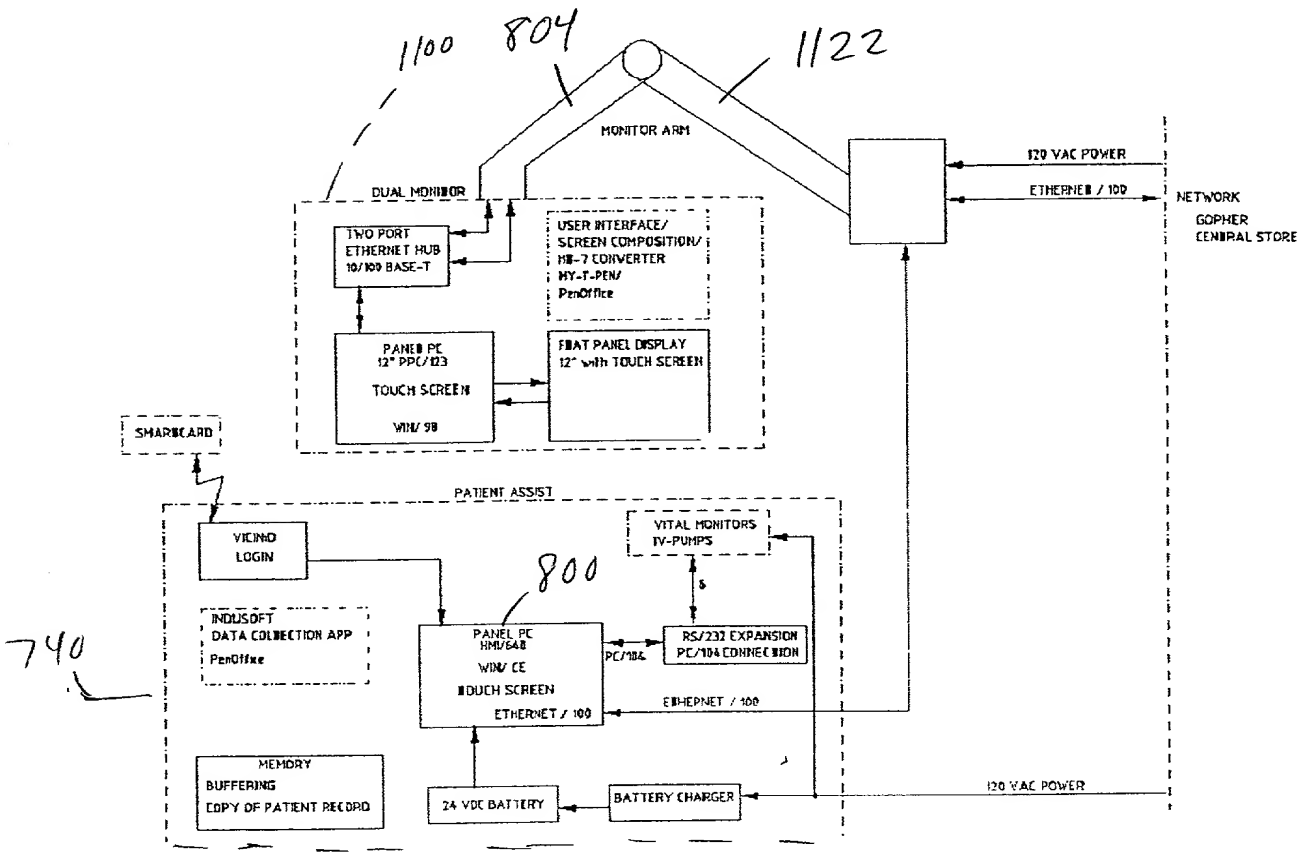
1100
804
1122
MONITOR ARM
120 VAC POWER
ETHERNET / 100
NETWORK
GOPHER
CENTRAL STORE
DUAL MONITOR
TWO PORT
ETHERNET HUB
10/100 BASE-T
USER INTERFACE/
SCREEN COMPOSITION/
HL-7 CONVERTER
MY-T-PEN/
PenOffice
PANEL PC
12" PPC/123
TOUCH SCREEN
WIN/ 98
FLAT PANEL DISPLAY
12" with TOUCH SCREEN
SMARTCARD
PATIENT ASSIST
VICINO
LOGIN
VITAL MONITORS
IV-PUMPS
800
740
INDUSOFT
DATA COLLECTION APP
PenOffice
PANEL PC
HMI/640
WIN/ CE
TOUCH SCREEN
ETHERNET / 100
PC/104
RS/232 EXPANSION
PC/104 CONNECTION
ETHERNET / 100
MEMORY
BUFFERING
COPY OF PATIENT RECORD
24 VDC BATTERY
BATTERY CHARGER
120 VAC POWER

FIG. 86